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Analog servo motor. Standard size, 1.55" x 0.73" x 1.46". 49oz-in torque @ 6Vdc. Speed: 0.23sec/60 Degrees @ 4.8V, 0.19 sec/ 60 Degrees @ 6V. 6.5" leads with standard 3-conductor female connector.

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PORTABLE STAND FOR TABLETS AND eREADERS

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> CAT# TSN-20 ^{\$}**10**⁹⁵_{each}

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LIGHT EMITTING DIODES (LED)

STANDARD	Color Description	CAT#		<u>100</u>	1000
	RED - diffused	LED-1	10 for \$1.00	.07	.04
T-1 3/4	GREEN - diffused Special Quantity Pricing!	LED-2	10 for \$1.50	.12	.08
(5mm)	YELLOW - diffused	LED-3	10 for \$1.50	.12	.08
()	AMBER - diffused	LED-173	10 for \$1.00	.07	.05
		220-110		.01	
ULTRA-	Ultra-bright 5mm (T 1-3/4) LEDs.				
-	Improved brightness and color	2			
BRIGHT	consistency.	no flange	,	with flang	e
T-1 3/4	<u>Color Description</u>	CAT#	EACH	100	1000
(5mm)	AQUA - water clear in off state	LED-130	60¢	45¢	30¢
(511111)	RED - water clear in off-state. Ammo-pack	LED-150	,	,	,
			40¢	30¢	20¢
NEW	5	LED-233	50¢	40¢	25¢
	BLUE - water clear in off-state, 20° viewing angle	LED-215	60¢	45¢	30¢
	BLUE - water clear in off-state. Ammo-pack.	LED-153	50¢	40¢	30¢
	GREEN - water clear 3000 mcd - Reduced Price!	LED-57	\$1.10	90¢	80¢
	GREEN - water clear in off-state	LED-128	75¢	55¢	40¢
	WHITE - water clear, 15° viewing angle	LED-127	95¢	75¢	60¢
	WHITE - water clear, warm-white	LED-156	65¢	50¢	35¢
	WHITE- water clear in off-state, 20° viewing angle	LED-214	60¢	45¢	30¢
NEW	WHITE - water clear in off-state, 3000 mcd	LED-228	60¢	45¢	30¢
NEW	WHITE - water clear, 25° viewing angle, 3000 mcd	LED-229	60¢	45¢	30¢
	YELLOW - water clear 3000 mcd	LED-72	95¢	75¢	47¢
	YELLOW / AMBER - water-clear in off-state.	LED-152	40¢	30¢	20¢
	PURPLE (HOT PINK) - water clear 1000+ mcd	LED-92	\$1.75	1.40	1.05
	ORANGE - water clear point source	LED-136	60¢	50¢	35¢
	· · ·		,		
MINIATURE	RED - diffused	MLED-1	10 for \$1.00	.08	.07
T-1	GREEN - diffused	MLED-2	10 for \$1.25	.10	.08
	YELLOW - diffused	MLED-3	10 for \$1.25	.10	.08
(3mm)	RED - point source	MLED-7	10 for \$1.00	.08	.07
·	GREEN - point source	MLED-8	10 for \$1.00	.08	.07
	GREEN - water clear	MLED-21	10 for \$1.00	.08	.07
	YELLOW - point source	MLED-9	10 for \$1.25	.10	.08
	AMBER - diffused	MLED-12	10 for \$1.25	.10	.08
	BLUE - water clear	LED-210	3 for \$1.00	.25	.20
	BLUE - water clear Ultrabright	LED-209	75¢	.55	.40
	BLUE - point source Ultrabright - Reduced Price!	LED-59	60¢	.45	.35
	WHITE - water clear Ultrabright	LED-83	95¢	.80	.65
	GREEN - Ultrabright - water clear	LED-03	\$1.00	.65	.50
		EED-110	ψ1.00	.00	.00
RED MINI-	2mm red lens. Red in off-state.		and the second se		and the second division of the second divisio
AXIAL LED	CAT# LED-157 10 for \$1.00 • 100 for	7¢ each •	500 for 5¢ e	each	
ANIAL LED					
SUPER-	Ultra-bright, super-flux Piranha LEDs. 7.62mm squ	are, 4-pin DIP	package aids he	at dissip	ation.
	Designed for high-current, high-flux output.		U U		
BRIGHT,				100 C	0
HIGH-FLUX	<u>Color</u> <u>CAT#</u> <u>Each</u>	<u>10</u>	<u>100</u>		TT.
	RED LED-912 0.40	0.35	0.25	T	
LEDS	WHITE LED-918 1.15	1.00	0.80		1 .
	BLUE LED-917 1.00	0.85	0.70		
	TRUE GREEN LED-914 0.70	0.65	0.55		
	STD. GREEN LED-915 0.95	0.80	0.70		
	YELLOW LED-916 1.00	0.85	0.70		
	Built-in flashing unit 3 - 5 Vdc operation Diffus	ed. High Brigh	tness		
FLASHING				<u>100</u>	<u>1000</u>
LEDS		LED-4	2 for .90	.40	.30
1	T-1 3/4 (5mm) RED				
	T-1 3/4 (5mm) RED T-1 3/4 (5mm) GREEN	LED-4G	.50	.45	.40
			.50 .75	.45 .55	.40 .48
	T-1 3/4 (5mm) GREEN	LED-4G			
	T-1 3/4 (5mm) GREEN T-1 3/4 (5mm) WHITE	LED-4G LED-4W LED-72W	.75 .75	.55 .55	.48 .48
BI-COLOR	T-1 3/4 (5mm) GREEN T-1 3/4 (5mm) WHITE T-1 (3mm) WHITE	LED-4G LED-4W LED-72W	.75 .75 T# <u>1-99</u>	.55 .55 <u>100</u>	.48 .48 <u>1000</u>
BI-COLOR	T-1 3/4 (5mm) GREEN T-1 3/4 (5mm) WHITE T-1 (3mm) WHITE T 1 3/4 (5mm) RED / GREEN diffused	LED-4G LED-4W LED-72W	.75 .75 T# <u>1-99</u>	.55 .55	.48 .48
BI-COLOR	T-1 3/4 (5mm) GREEN T-1 3/4 (5mm) WHITE T-1 (3mm) WHITE	LED-4G LED-4W LED-72W	.75 .75 T# <u>1-99</u>	.55 .55 <u>100</u>	.48 .48 <u>1000</u>
BI-COLOR	T-1 3/4 (5mm) GREEN T-1 3/4 (5mm) WHITE T-1 (3mm) WHITE T 1 3/4 (5mm) RED / GREEN diffused Two leads. Reverse polarity to change color. Yellor	LED-4G LED-4W LED-72W	.75 .75 T<u>#</u><u>1-99</u>)-6 .50	.55 .55 <u>100</u> .45	.48 .48 <u>1000</u> .35
BI-COLOR	T-1 3/4 (5mm) GREEN T-1 3/4 (5mm) WHITE T-1 (3mm) WHITE T 1 3/4 (5mm) RED / GREEN diffused Two leads. Reverse polarity to change color. Yellor T 1 3/4 (5mm) RED / GREEN diffused	LED-4G LED-4W LED-72W won AC.	.75 .75 T<u>#</u><u>1-99</u> D-6 .50	.55 .55 <u>100</u>	.48 .48 <u>1000</u>
BI-COLOR	T-1 3/4 (5mm) GREEN T-1 3/4 (5mm) WHITE T-1 (3mm) WHITE T 1 3/4 (5mm) RED / GREEN diffused Two leads. Reverse polarity to change color. Yellor	LED-4G LED-4W LED-72W won AC.	.75 .75 T# <u>1-99</u>)-6 .50	.55 .55 <u>100</u> .45	.48 .48 <u>1000</u> .35
BI-COLOR	T-1 3/4 (5mm) GREEN T-1 3/4 (5mm) WHITE T-1 (3mm) WHITE T-1 (3mm) WHITE T 1 3/4 (5mm) RED / GREEN diffused Two leads. Reverse polarity to change color. Yellor T 1 3/4 (5mm) RED / GREEN diffused Three leads. Center cathode. Milky-white off-state Chicago Miniature # CMD119EGW. Three-lead,	LED-4G LED-4W LED-72W won AC.	.75 .75 T# <u>1-99</u>)-6 .50	.55 .55 <u>100</u> .45	.48 .48 <u>1000</u> .35
BI-COLOR	T-1 3/4 (5mm) GREEN T-1 3/4 (5mm) WHITE T-1 (3mm) WHITE T 1 3/4 (5mm) RED / GREEN diffused Two leads. Reverse polarity to change color. Yellor T 1 3/4 (5mm) RED / GREEN diffused Three leads. Center cathode. Milky-white off-state Chicago Miniature # CMD119EGW. Three-lead, rectangular LED lights red or green. Milky-white in	LED-4G LED-4W LED-72W won AC.	.75 .75 T# <u>1-99</u>)-6 .50	.55 .55 <u>100</u> .45	.48 .48 <u>1000</u> .35
BI-COLOR	T-1 3/4 (5mm) GREEN T-1 3/4 (5mm) WHITE T-1 (3mm) WHITE T-1 (3mm) WHITE T 1 3/4 (5mm) RED / GREEN diffused Two leads. Reverse polarity to change color. Yellor T 1 3/4 (5mm) RED / GREEN diffused Three leads. Center cathode. Milky-white off-state Chicago Miniature # CMD119EGW. Three-lead, rectangular LED lights red or green. Milky-white in off-state. Center, common lead is cathode.	LED-4G LED-4W LED-72W won AC.	.75 .75 T# <u>1-99</u> -6 .50 -141 .40	.55 .55 <u>100</u> .45 .32	.48 .48 <u>1000</u> .35 .25
BI-COLOR	T-1 3/4 (5mm) GREEN T-1 3/4 (5mm) WHITE T-1 (3mm) WHITE T 1 3/4 (5mm) RED / GREEN diffused Two leads. Reverse polarity to change color. Yellor T 1 3/4 (5mm) RED / GREEN diffused Three leads. Center cathode. Milky-white off-state Chicago Miniature # CMD119EGW. Three-lead, rectangular LED lights red or green. Milky-white in	LED-4G LED-4W LED-72W won AC.	.75 .75 T# <u>1-99</u> -6 .50 -141 .40	.55 .55 <u>100</u> .45	.48 .48 <u>1000</u> .35
BI-COLOR	T-1 3/4 (5mm) GREEN T-1 3/4 (5mm) WHITE T-1 (3mm) WHITE T-1 (3mm) WHITE T 1 3/4 (5mm) RED / GREEN diffused Two leads. Reverse polarity to change color. Yellor T 1 3/4 (5mm) RED / GREEN diffused Three leads. Center cathode. Milky-white off-state Chicago Miniature # CMD119EGW. Three-lead, rectangular LED lights red or green. Milky-white in off-state. Center, common lead is cathode. Led face is 2mm x 5mm.	LED-4G LED-4W LED-72W won AC. LED LED LED	.75 .75 T# <u>1-99</u> -6 .50 -141 .40	.55 .55 <u>100</u> .45 .32	.48 .48 <u>1000</u> .35 .25
BI-COLOR	T-1 3/4 (5mm) GREEN T-1 3/4 (5mm) WHITE T-1 (3mm) WHITE T-1 (3mm) WHITE T 1 3/4 (5mm) RED / GREEN diffused Two leads. Reverse polarity to change color. Yellor T 1 3/4 (5mm) RED / GREEN diffused Three leads. Center cathode. Milky-white off-state Chicago Miniature # CMD119EGW. Three-lead, rectangular LED lights red or green. Milky-white in off-state. Center, common lead is cathode. Led face is 2mm x 5mm. T 1 (3mm) RED/GREEN diffused	LED-4G LED-4W LED-72W won AC. LED LED LED	.75 .75 T# <u>1-99</u> .50 0-141 .40	.55 .55 <u>100</u> .45 .32 .20	.48 .48 .48 .35 .25 .12
BI-COLOR	T-1 3/4 (5mm) GREEN T-1 3/4 (5mm) WHITE T-1 (3mm) WHITE T-1 (3mm) WHITE T 1 3/4 (5mm) RED / GREEN diffused Two leads. Reverse polarity to change color. Yellor T 1 3/4 (5mm) RED / GREEN diffused Three leads. Center cathode. Milky-white off-state Chicago Miniature # CMD119EGW. Three-lead, rectangular LED lights red or green. Milky-white in off-state. Center, common lead is cathode. Led face is 2mm x 5mm.	LED-4G LED-4W LED-72W won AC. LED LED LED	.75 .75 T# <u>1-99</u> .50 0-141 .40	.55 .55 <u>100</u> .45 .32	.48 .48 <u>1000</u> .35 .25
BI-COLOR	T-1 3/4 (5mm) GREEN T-1 3/4 (5mm) WHITE T-1 (3mm) WHITE T-1 (3mm) WHITE T 1 3/4 (5mm) RED / GREEN diffused Two leads. Reverse polarity to change color. Yellor T 1 3/4 (5mm) RED / GREEN diffused Three leads. Center cathode. Milky-white off-state Chicago Miniature # CMD119EGW. Three-lead, rectangular LED lights red or green. Milky-white in off-state. Center, common lead is cathode. Led face is 2mm x 5mm. T 1 (3mm) RED/GREEN diffused	LED-4G LED-4W LED-72W won AC. LED LED LED	.75 .75 T# <u>1-99</u> .50 0-141 .40	.55 .55 <u>100</u> .45 .32 .20	.48 .48 <u>1000</u> .35 .25 .12
BI-COLOR	T-1 3/4 (5mm) GREEN T-1 3/4 (5mm) WHITE T-1 (3mm) WHITE T-1 (3mm) WHITE T 1 3/4 (5mm) RED / GREEN diffused Two leads. Reverse polarity to change color. Yellor T 1 3/4 (5mm) RED / GREEN diffused Three leads. Center cathode. Milky-white off-state Chicago Miniature # CMD119EGW. Three-lead, rectangular LED lights red or green. Milky-white in off-state. Center, common lead is cathode. Led face is 2mm x 5mm. T 1 (3mm) RED/GREEN diffused Three leads. Center cathode. Milky-white off-state	LED-4G LED-4W LED-72W won AC. LED LED LED	.75 .75 T# <u>1-99</u> .50 0-141 .40	.55 .55 <u>100</u> .45 .32 .20	.48 .48 <u>1000</u> .35 .25 .12
BI-COLOR	T-1 3/4 (5mm) GREEN T-1 3/4 (5mm) WHITE T-1 (3mm) WHITE T-1 (3mm) WHITE T 1 3/4 (5mm) RED / GREEN diffused Two leads. Reverse polarity to change color. Yellor T 1 3/4 (5mm) RED / GREEN diffused Three leads. Center cathode. Milky-white off-state Chicago Miniature # CMD119EGW. Three-lead, rectangular LED lights red or green. Milky-white in off-state. Center, common lead is cathode. Led face is 2mm x 5mm. T 1 (3mm) RED/GREEN diffused Three leads. Center cathode. Milky-white off-state Three leads. Center cathode. Milky-white off-state Three leads. Center cathode. Milky-white off-state Three leads. Center cathode. Milky-white off-state	LED-4G LED-4W LED-72W	.75 .75 T# <u>1-99</u> .50 0-141 .40	.55 .55 <u>100</u> .45 .32 .20	.48 .48 <u>1000</u> .35 .25 .12
BI-COLOR	T-1 3/4 (5mm) GREEN T-1 3/4 (5mm) WHITE T-1 (3mm) WHITE T-1 (3mm) WHITE T 1 3/4 (5mm) RED / GREEN diffused Two leads. Reverse polarity to change color. Yellor T 1 3/4 (5mm) RED / GREEN diffused Three leads. Center cathode. Milky-white off-state Chicago Miniature # CMD119EGW. Three-lead, rectangular LED lights red or green. Milky-white off-state. Chicago Miniature # CMD119EGW. Three-lead, rectangular LED lights red or green. Milky-white in off-state. Center, common lead is cathode. Led face is 2mm x 5mm. T 1 (3mm) RED/GREEN diffused Three leads. Center cathode. Milky-white off-state T 1 (3mm) Right-angle red/green diffused LED. 3 leads mounted in a	LED-4G LED-4W LED-72W	.75 .75 T# <u>1-99</u> .50 .50 .40 .40 .25 .64 .25 .35 .35	.55 .55 .55 .32 .32 .20 .29	.48 .48 .35 .25 .12 .25

12 VDC LEDS

Bright 5mm round LEDs with built-in resistors for 12Vdc, 12mA operation. No external resistor required. Works well on 4-12Vdc. Dimmer at lower voltages. 35 Degree viewing angle. Lenses are tinted the same color as the LED when lit. Spec sheets available on our web site

COLOR	CAT#	<u>EACH</u>	<u>100</u>	<u>1000</u>
RED	LED-12R	45¢	35¢	25¢
BLUE	LED-12B	55¢	45¢	35¢
WHITE	LED-12W	50¢	40¢	30¢
GREEN	LED-12G	50¢	40¢	30¢

HIGH-POWER LEDS

1 WATT ULTRA-BRIGHT WHITE LED

Cree XLamp™ Extremely high-brightness LED capable of operating at 1 Watt and above. Long-life, solidstate. low-voltage and current light. Mounted on star-type aluminum disc



which serves as a heatsink and provides solder spots to simplify connection. 100° viewing angle. Maximum forward voltage, 4Vdc. Max. current, 350/ 700mA. Note: These are new parts. Because of their sensitivity to misuse, we cannot guarantee them after voltage has been applied. CAT# LED-154 \$6.50 each

HIGH-POWER COOL-WHITE LED EMITTER

110-120 Lumen 1W white LED emitter. 3.35Vdc (typical),350mA. Cool-white,

6000-6500K. 8mm diameter, 5.1mm overall height. Surface mount leads. Note: Should be mounted on heat sink for continuous use. These are new, functional parts, but they are sensitive to over-voltage and overcurrent. Therefore, we cannot guarantee them. CAT# LED-216 \$3.50 ea. • 10 for \$3.20 ea.

SURFACE MOUNT LEDS

SMD RED LED

Ledtronics # SML10R3KT-TR. 3.2 x 2.8 x 1.90mm ultra red (660nm) surface mount LED. 120° viewing angle. Water-clear in off-state. Tape & reel cut strips. CAT# LED-213 20 for \$3.00 100 for 12¢ each

YELLOW SIDE-LOOKING LED

LiteOn # LTST-S320YKT.

1 x 3 x 2mm high side-looking yellow LED designed for LCD backlight illumination. 2mm diameter lens. Water-clear in off-state, 130° viewing angle, 585nm. CAT# LED-165 10 for \$1.50 100 for 12¢ each

5MM ULTRAVIOLET LEDS

Emits blue 395nm UV light. Water-clear lens. 3.7 Vdc, 20 mA. Ideal for counterfeit bill detection, detection of fluorescence in minerals, black-light posters.

CAT# 30° beam pattern ULED-2 20° beam pattern ULED-3

<u>each</u>	<u>100</u>	<u>1000</u>
\$1.40	1.05	.90
\$1.10	.90	.75

MISCELLANEOUS LEDS

INFRARED EMITTER T-1 3/4 (5mm). Clear lens CAT# ILED-8 3 for \$1.00 100 for 20¢ each • 1000 for 14¢ each

4MM GREEN "TOMBSTONE" LED

4mm x 2mm rectangular LED with rounded face. Green diffused. CAT# LED-172 10 for \$1.00 • 100 for \$8.00

RGB COLOR-CHANGING LEDS, 5MM (T1-3/4)

Cycles through red-green-blue and combinations of RGB, yielding, purple, white and other hues. Great for attention-getting displays, costumes and jewelry. Two flash rates:

Slow Rate -- changes color every 3 or 4 seconds CAT# LED-158 75¢ each 10 for 70¢ each • 100 for 50¢ each

Rapid Rate -- changes color every second for 10 seconds, then changes color 3 or 4 times per second for 10 seconds. CAT# LED-231 75¢ each



10 for 70¢ each • 100 for 50¢ each

2MM GREEN LED IN HOLDER

2mm (T-3/4) green LED in plastic holder. Holder is 6mm x 2.5mm x 5mm high and interlocks with other similar holders. 5mm lead spacing.

CAT# LED-176 -10 for \$1.00 15 for \$1.00 • 1000 for \$30.00 each



GREEN / YELLOW BI-LEVEL LED ASSEMBLY



Ledtronics #PCB-1212-064. 3mm (T-1) diffused LEDs. Plastic assembly is 4.32mm wide x 10.9mm high. Chamfered upper back. LEDs on 2mm

centers. Cross to Dialight 553, DDP PCT125, Lumex SSF-LXH240. 4mm leads. Large quantity available. Special pricing. CAT# LED-161 10 for \$1.00 100 for 8¢ each • 1000 for 5¢ each

5VDC RED LED, 3MM DIFFUSED

Ledtronics. Inc # L120TR3B-5V 3mm dia. (T-1) red diffused led with built-in resistor to operate on 5Vdc.

CAT# MLED-5R 4 for \$1.00 100 for 20¢ each • 1000 for 15¢ each

4MM RED FLAT-TOP LED

4mm diameter diffused red flat-top LED. Diffused red in off-state. CAT# LED-167 10 for \$1.00 • 100 for 8¢ each

20MM RED 6-LED LAMP

Six red LED chips under a clear plexiglass dome. Dome is 19.5mm dia. x 11mm high. Dome sits on a 23mm diameter x 3mm high base. Each led chip has two leads and



requires an appropriate dropping resistor to operate on any voltage over 2.7 Volts. **CAT# LED-169** 2 for \$1.00 • 100 for 35¢ each

12 LED AMBER LAMP, USED

26mm dia. x 40mm long plastic lamp containing 12 bright amber LEDs. No official specs. Optimal voltage and current appears to be 11.5Vdc @ 25mA. Rear of lamp has a tapped brass insert for mounting and a rubber O-ring. Two 18" leads with 2-pin connector. These lamps are very sensitive to over-voltage. Like most LEDs they will last a long time when run at the proper voltage. However, they will burn out quickly above 11.5Vdc. Because of the sensitivity of this part, we cannot guarantee it. Removed from used equipment. CAT# LED-155 \$2.00 each

ORDER TOLL FREE 1-800-826-5432

LED TESTER

Pocket-size tester. Checks functionality. color, brightness and uniformity of leaded LEDs. Test current ratings from 2-50ma. Socket strip has seven middle positions set at 10 mA allowing comparison of LEDs



in those spaces. Requires 9 v battery (not included). CAT# LT-100 \$8.95 each

LED MOUNTING HARDWARE

CLIPS FOR 5MM LEDS

Black plastic clips allow snap-in mounting of standard size I FDs

2 PIECE HOLDER Mounts in 6.3 mm hole. CAT# HLED-4 10 for \$1.20 100 for 9¢ • 1000 for 8¢ each



2-PIECE Creates a cartridge that press-fits in 8mm diameter hole. CAT# HLED-8 2 for 90¢

100 for 36¢ each • 1000 for 30¢ each

CLIPLITE HOLDERS Colored polycarbonate lens increases brightness and viewing angle with either diffused or non diffused LEDs. Mounts in 0.25" hole in panels of 0.06" to 0.125" thickness.

X= R (RED), G (GREEN), Y (YELLOW), C (CLEAR) HLDCL-X 3 for 90¢

100 for 25¢ each • 1000 for 20¢ each

CLIPS FOR T-1 (3MM) LEDS

1 PIECE HOLDER Mounts in 4.5 mm hole. CAT# HLED-5 10 for \$1.00 100 for 8¢ each • 1000 for 7¢ each



STANDOFF FOR 5MM LED

Black plastic standoff for 5mm dia., T 1 3/4. LED. For LEDs with or without flange. Standoff is 7mm dia. x 11.5mm high. LED sits inside of standoff, recessed 3mm. One plastic mounting pin. CAT# HLED-10 10 for \$1.00 • 100 for 7¢ ea.

MOUNT FOR TWO 5MM FLANGELESS LEDS



Black plastic mount for two 5mm (T1-3/4) flangeless leds. 13.0 x 6.2 x 6.0mm h. Four plastic mounting pins on 11.0 x 5.2mm centers. CAT# HLED-9 10 for \$1.00 100 for 8¢ each • 1000 for 6¢ each

RUBBER SPACERS 0.15" dia.rubber spacer for 3mm, T-1 LEDs. Leads can go through center holes, 1mm centers, or outer slots, 2mm centers.

0.15" SPACER CAT# SLED-150 10 for 50¢ • 100 for 4¢ each 1000 for 2.5¢ each



0.875" SPACER CAT# SLED-875 5 for 50¢ • 100 for 8¢ each 1000 for 4.5¢ each

12-24 VDC 8A DIMMER

Designed for 12-24 VDC LED strip lights like our CAT#s LS-12-CW, NW, 🝙 WW. Clearly-marked screw-clamp input/output terminals. Rotary adjustment. 3.5" x 2.35" x 2.25" high (including knob). Mounting holes on 1.6" x 3.1" centers.



12 VDC LED LIGHT STRIPS

WHITE LED STRIPS

1.12 L13 L14 2 R5 Flexible 8mm wide, adhesive backed ribbon with sur-

face-mount, ultrabright white LEDs every 15mm. Ideal for accent lighting in auto or home. Also great for under cabinet or shelf lighting. Dimmable. Use CAT# DMR-8. Can be cut every third LED or 50mm (approx. 2") and each segment can be lit independently. 12Vdc 25mA per segment. Wires can be soldered directly to ribbon tape. Sold as a continuous ribbon, up to 5 Meters (100 segments). Priced per 3-led, 50mm segments. Available in Cool, Neutral and Warm-white.

CAT# LS-12-CW

Cool-White - like fluorescent light

CAT# LS-12-NW

Neutral-white - Between Cool and Warm

CAT# LS-12-WW

Warm-white - Yellower, like incandescent light

\$2.35 per 3-led segment 10 segments for \$1.75 per segment 100 segments for \$1.55 per segment

RED/GREEN/BLUE 12VDC LED STRIP

Each surface mount LED is capable of red, green or blue, or any combination of colors. When all three colors are activated LED appears white. Flexible 10mm wide strip with 3M® adhesive backing. Operates on 12Vdc. The strip can be cut every 3 LEDs, 50mm (3"). Each of these 3-LED segments has clearly marked solder spots at both ends for attachment of wires or ribbon connectors. Strips can be connected end to end for longer lengths. Also available are two RF controllers, CAT# CT-21 and CAT# CT-23, which can be used to flash the LEDs in several programmed sequences at controllable speeds, also allowing dimming. Colorcoded pigtail leads at both ends for easy connection. Sold in 3" (50mm) segments. A full strip is 100 segments with color-coded pigtail leads at both ends.

CAT# LS-22 \$2.50 per 3-led segment 10 segments for \$1.85 per segment 100 segments for \$1.50 per segment



Allows flashing, sequencing and dimming of tri-color LED strip, CAT# LS-22. Will operate up to 5 strips, 1500 LEDs. Operates on 12-24Vdc.



Input via screw terminals or 2.5mm coax power plug. Power supply not included. CAT# CT-21 \$35.00 each

A less expensive, infrared (IR) version of controller CT-21. Will operate 1 strip, 300 LEDs. Mates with connector pins on LED strip. Because remote



control communicates via IR, remote must be operated in "line of sight" of controller. 12 Vdc regulated power supply included.

CAT# CT-23 \$25.00 each

\$19.95 each VISIT OUR WEBSITE - WWW.ALLELECTRONICS.COM

CAT# DMR-8 6

LED DISPLAYS

7 SEGMENT DISPLAY

Common Anode. Fits 24 pin DIP socket. Green. 2-digit 0.4" character height. Prepped with two plastic spacers which raise it 9mm from the PC board. CAT# TDA-482 75¢ each

10 for 65¢ each • 100 for 50¢ each

3-DIGIT LED DISPLAY, 0.56"

Ledtech# LC5673-11 EWRN. Three 7-segment LED digits with decimal points. 0.56" (14.22mm) high characters. Common cathode. Red digits on grey background. 28-pin DIP package, 37.7 x 19.0mm overall.



CAT# SDC-563 90¢ each 10 for 80¢ each • 100 for 75¢ each

4-DIGIT LED DISPLAY, 0.56"

Ledtech #LN5674-11-M1-EWRS. Four 7-segment LED digits with decimal points, 0.56" (14.22mm) high. Common anode. Red digits on grey background. 50.4 x 19.05mm overall.



12-pin DIP package. 15.24mm (0.6") spacing between rows. CAT# SDA-25 \$1.25 each 10 for \$1.10 each

ALPHA-NUMERIC LED DISPLAY

Ledtech # LA3921-11B. 0.4" high character. 14-segment with decimal point. Green LEDs on grey background. Common anode. Fits 18-pin DIP socket. 0.93" x 0.39". CAT# SDA-24 \$1.25 each



Ledtech #LJ7071-22. Red dots on grey background. 12-pin DIP package. 0.3" (7.62mm) spacing between rows. CAT# SDD-68 \$2.50 each 10 for \$2.35 each



BARGRAPH DISPLAYS

20 pin DIP socket. 10 segments.

<u>Color</u>	<u>CAT #</u>	<u>1-9</u>
Red	BG-10	1.50
Green	BG-10G	1.50

10-LED BARGRAPH

Ledtronics #LB2512-10R3 QG. 10 red rectangular LEDs in a white surround. 635nm. 120° viewing angle. Overall



100+

1 00

<u>10-99</u>

1 25

size, 65 x 6 x 11mm high. Leads on 0.1" centers. CAT# BG-10R3 \$1.00 each

INDICATOR LAMPS

12VDC LED INDICATOR ASSEMBLIES

No external resistor required. 5mm dia. diffused LED mounted in a 10mm dia. chrome bezel. 8mm dia.

threaded bushing with mounting hardware. Assembly extends 30mm below mounting panel. Available in Red (R), Green (G), and Yellow (Y). CAT# IND-16X (X=R,G,Y) \$ 2.25 each

LED INDICATOR ASSEMBLIES 5mm diameter diffused LED mounted in a



10mm dia. chrome bezel. 8mm dia. threaded bushing with mounting hardware. Operate on any DC voltage as long as an appropriate resistor is connected. See our LED Hook-up guide in Spec Sheets. Available in Red (R), Green (G), Amber (A) and Blue (B). CAT# IND-13X (X=R.G.A.B) \$ 1.75 each

BLUE LED INDICATOR. CHROME ASSEMBLY

3Vdc LED will operate on any voltage when used with appropriate resistor. Threaded bushing mount in 8mm dia. hole. 10mm dia. chrome bezel. 24" color-coded leads. CAT# IND-16B \$1.75 each

120V INDICATOR LAMPS

Snap-fit in 9mm dia. hole. 10mm dia.lens. 30mm long. 6" leads. Three colors (red, green, amber) CAT# IND-120(R, G, A) \$1.50 each

120 VAC RED INDICATOR ASSEMBLY

Solico. Red neon indicator. 125V 1/3 W. 0.30" dia. x 1.32" long housing. Red lens with 0.39" diameter metallic bezel. 28" wire leads w/ 0.25" female gc connectors. UL, CSA.



CAT# IND-122 \$1.20 each

125VAC NEON INDICATOR ASSEMBLY

McGill red 125Vac neon indicator assembly. 31.5 x 17mm black bezel with 21 x 10.5mm red lens. Snap-mounts in 13 x 26mm chassis hole. 34mm behind panel depth including terminals. 0.25" qc / solder terminals. UL, CSA.



CAT# IND-34 2 for \$1.00 100 for 40¢ each • 1000 for 30¢ each

12V GREEN INDICATOR LAMP ASSEMBLY

12 Volt incandescent indicator assembly. 7mm diameter threaded body. 8mm diameter green jewel is 6mm in height. Solder-lug terminals. CAT# IND-17G \$1.00 each



12 VDC LED INDICATORS

Threaded bushings with nuts for easy mounting. 8mm above panel height. 22mm below panel depth.Two sizes, four colors (red, green, blue, yellow). Solder-lug terminals.

10mm dia. lens. 10mm bushing. CAT # IND-10(R, G, B, Y) \$1.25 each • 10 for \$ 1.10 each

12mm dia. lens. 12mm bushing. CAT# IND-12(R, G, B, Y) \$1.35 each • 10 for \$ 1.15 each



VISIT OUR WEBSITE - WWW.ALLELECTRONICS.COM

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4 LED CLUSTERS

5-12Vdc LED assembly designed for use in cars or computers. Bright, eyecatching accent-lighting. Four-led cluster mounted in a plastic assembly, 1.58" x 0.82" x 0.5" high. Two recessed mounting holes on 1.15" centers. 36" cable with red and black leads. For 12Vdc use, but they are very bright at 5-6 Vdc. Two colors of base available, chrome and black. LEDs available in blue (B), red (R) and amber (A). No mixing for discounts.

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/ith

AR

filter

CHROME BASE **CAT# CLD-4X** (X = B, R OR A) \$6.00 each • 10 for \$5.50 each

BLACK BASE

CAT# BLD-4X (X = C OR B – white or blue only) \$6.00 each • 10 for \$5.50 each

INCANDESCENT LAMPS

6V INCANDESCENT LAMP

WITH BLUE FILTER

6 Volt, 75mA miniature lamp assembly with removable blue silicon-rubber filter. 3mm diameter lamp is built-into a 4 x 7 x 3mm high plastic platform with wire leads on 5mm centers. Overall height of lamp and platform is 7mm. Leads are 18mm long.

CAT# LP-71 5 for \$1.00 100 for 15¢ each • 500 for 13¢ each

1000 for 10¢ each • 1500 for 9¢ each

T-1 (3MM) w/ INSULATED WIRE LEADS

CAT# LP-3		100 for 65¢ each
3v @ 55 ma. CAT# LP-4	•	100 for 65¢ each
14v @ 45 ma. CAT# LP-6	•	100 for 65¢ each

T-1 (3MM) w/ BARE WIRE LEADS

сат# LP-715	2/\$1.00	100+ \$40.00
	LP-715	

14 Volt 40 ma **LP-23** 3/\$1.00 100/\$20.00 500 for 18¢ each • 1000 for 14¢ each

T-1 3/4 (5MM) w/ BARE WIRE LEADS

	CAT#		100+
28 V 40ma	LP-2185	4/\$1.00	\$17.00 🎢
28 V 60 ma	LP-28	4/\$1.00	\$17.00
28 Volt 65 ma	LP-2185 LP-28 LP-28	4/\$1.00	\$17.00

GLASS WEDGE BASE LAMPS

T3-1/4 size. 0.40" diameter x 0.98" long. 10 pc minimum of one type (no mixing)				
	CAT#	<u>10</u>	<u>100</u>	T
6.3V, 0.25A	LP-259	\$3.50	\$25.00	A F
14V, 0.19A	LP-161	\$3.50	\$25.00	A 30
14V, 0.27A	LP-194	\$3.50	\$25.00	
28V, 0.08A	LP-657	\$3.50	\$25.00	

SOCKET FOR T 1 1/2 WEDGE-BASE

#2967 socket with 4.5" wire leads.
For T1-1/2 mini wedge-base lamps.
CAT# LPS-2967 50¢ each
10 for 45¢ each • 100 for 35¢ each



14V MINI BAYONET BASE LAMP

#1815 lamp. 14.0 volts, 0.200 amps. **CAT# LP-1815** 2 for \$1.00 100 for 45¢ each



0.5" long L-bracket. One terminal has diode for polarity protection. Solder terminals. **CAT# LS-8** 35¢ each

1.15" long L-bracket. Solder terminals. CAT# LS-9 35¢ each

12-14V NEO-WEDGE BASE LAMP

JKL # DNW1-DW12/GRA/39-04S-4B. 4mm dia. incandescent lamp on a gray plastic mounting platform designed to twist-lock onto a pc board. Wire leads run across top and



bottom of base and are accessible for direct connection. Lamp is provided with a removable green silicon rubber filter. Overall height is 12mm. Base dia. is 10mm.

CAT# LP-70 5 for \$1.00 • 100 for 15¢ each 500 for 13¢ each • 1000 for 10¢ each

T-1 3/4 5MM DIAMETER LAMPS

T - 1	3/4	BI-PIN LA	MP (7382	
volts 14 18	амрз .080 .040	^{сат#} LP-7382 LP-7370		100 for \$45.00 100 for \$45.00	
28	.040	LP-7387	2 for \$1.00	100 for \$45.00	
T-1 3/4 MIDGET FLANGE LAMP					

VOLTS	AMPS	CAT#		
14	.08	LP-382	2 for \$1.00	100 for \$45.00
28	.040	LP-327	2 for \$1.00	100 for \$45.00

NEON LAMP ASSEMBLY w/ RESISTOR

Prepped with resistor and 7" stripped and tinned pigtail leads. Operates on 120 Vac. Clear vinyl sleeve covers the top 2" of the leads.

CAT# NE-210 3 for \$1.00 50 for 27¢ each • 500 for 23¢ each

BI-PIN HALOGEN LAMPS

MR-16 BI-PIN

		100 100	
12 Volt	. GU5.3, bi-pin	base.	
20W	12 Degree	ESX	CAT# HLP-20S
20W	36 Degree	BAB	CAT# HLP-20
35W	36 Degree	FMW	CAT# HLP-35
50W	36 Degree	EXN	CAT# HLP-50
75W	36 Degree	EYC	CAT# HLP-75
\$1.25	each • 10 for \$	1.10 each	• 100 for 95¢ each

no mixing

HALOGEN LAMP W/ SOCKET

71 Watt, 12 Volt MR-16, bi-pin halogen lamp and mounting frame with ceramic socket. Overall dimensions, 2.20" x 2.15" x



1.92" high. 6" leads with heat-resistant insulation.CAT# HLP-710\$3.00 each

ORDER TOLL FREE 1-800-826-5432

SOCKETS FOR BI-PIN HALOGEN LAMPS

HALOGEN BI-PIN SOCKETS

For MR16, MR11, glass 2-pin halogen lamps. GX5.3, G-4 and GY6.35 base. 500 Watts. Silver contacts, spring tension socket. 6" leads. UL

Round ceramic base, 0.67" dia. x 0.38". CAT# HI S-3 \$3.50 each



3mm x 0.5mm pitch. Threaded mounting holes CAT# HLS-4 \$3.65 each



FLUORESCENT LAMP PARTS

MEDIUM BI-PIN SOCKET

H&H # 1-500W-1 W/ Clip Butt-On fluorescent socket. Spring steel snap-in clips on back, 28mm centers, 8" black and white leads. 18 AWG solid. 660W, 600V. cULus. CAT# SKT-262 \$1.00 each



18

100 for 80¢ ea. • 500 for 60¢ ea.

9W T-4 COMPACT LAMPS

9W compact UV lamp 365nM. Type T-4, 2-pin, G23 base. Overall length. 6.5" CAT# UVL-4 \$1.25 each

9W compact fluorescent lamp Sylvania Dulux® CF9DS/ 850. Type T-4. 2-pin, G23 base. Overall length 6.5" CAT# FL-30 \$1.00 each • 50 for 80¢ each

White plastic socket for CAT# FL-30 above. Not for UVL-4. CAT# SKT-30 60¢ each • 50 for 55¢ each

FLUORESCENT STARTER SWITCH

Edwin Gaynor # 1170-2-SI-N-W. Rocker switch for up to two 30W 120 Vac lamps. Press-and-hold momentary side of switch to start lamp; press the other side to turn it off. Snap-mounts in 33 x 15mm rectangular cutout. Self-connecting terminals for stripped solid copper wire. CAT# RS-194 \$1.45 each 100 for \$1.15 each

LITTLITE® GOOSENECK TASK LIGHT. USED

Littlite® L-series, surfacemount task lamp. High-quality, USA made 18" gooseneck with adjustable shade. 12V incandescent lamp with integrated rotary dimmer/switch. 3" x 1" metal base. 6' 20/2 cord. Power supply not included (recommend CAT# PS-1251 or similar). 1815 (14V/ 200mA) bayonet base lamp. Extra bulbs available - CAT# LP-1815.

Note: lamps are used, removed from equipment. They are in good condition, but have scratches & blemishes. CAT# LT-17 \$9.00 each

110/130V 500W HALOGEN LAMP

Flexotek #505 4.63" long x

0.39" diameter. 0.30" dia. ceramic ends. Typically used in high-intensity work lights and other rectangular/square high-intensity fixtures. CAT# HI P-500 \$1.50 ea. • 10 for \$1.25 ea.



Popular lamps which are the same size as a 3AG 1/4" x 1 1/4" (AGC) fuse.

VOLTS	CAT#	EACH	<u>10</u>
6	LPFS-6	75¢	\$7.00
8	LPFS-8	\$1.00	\$8.50
12	LPFS-12	75¢	\$7.00

24V 5W XENON FROSTED **RIGID LOOP LAMP**

T-3 1/4 rigid loop lamp. 24V, 5W, 0.208A, 40 Lumens. Long-life, 20,000 Hr lamp. 10mm dia. x 35mm long (excluding terminals).



CAT# XLP-24 \$1.00 each • 50 for 75¢ each

FLASHERS

12 VDC FLASH ASSEMBLY

Bright xenon strobe assembly for highway emergency signal. Approximately 80 flashes per minute, 12Vdc operation.



Horseshoe flash tube (31.5 x 16 x 6mm) mounted on 65 x 75mm pc board. On/off switch. Easy to connect. See hook-up diagram on-line spec sheet. \$5.50 each CAT# FSH-13

For alarm systems, discos, personal use, warning in case of danger, etc. Long-life xenon tube. Protected against polarity reversal. Fully sealed and water-proof. Power supply: 12 Vdc. 150 mA. Flash rate: 120/min. 2.75" dia. x 1.70". Acrylic cover with



black ABS base. Threaded mounting studs on 1.7" centers. Hardware included. ice

<u>color</u>	<u>CAT#</u>	<u>price</u>
red	STROBE-3R	\$9.95 each
green	STROBE-3G	\$9.95 each
blue	STROBE-3B	\$9.95 each
amber	STROBE-3A	\$9.95 each
clear	STROBE-3C	\$9.95 each

FLASH ASSEMBLY

Working 1.5 Vdc, xenon flash assembly with flash tube and reflector, trigger transformer, photoflash capacitor, neon charge indicator and other components. Ready to go. Built-in-AA cell holder. PC board with components, 2.1" x 2.15" x 1.15" in depth. Battery holder adds 1.6" to length. Includes instructions. CAT# FSH-12 \$1.00 each

10 for 85¢ each • 100 for 60¢ each

INEXPENSIVE LED FLASHER

The simplest electronic flasher ever. A red 5mm LED with built-in flasher chip is attached to a 9 volt battery snap. Operates on 3-9 Vdc. Flash rate, approximately 120 flashes per minute. Batteries not included. CAT# FSH-100 2 for \$1.00





SENSORS

CO2. TEMPERATURE HUMIDITY SENSORS & OTHER PARTS

"The Nose" monitor by Pure Choice. New, high-quality air sensor units containing a CO2 sensor, a temperature and relative humidity sensor



as well as an 8 x 2 LCD with LED backlight display and a 12Vdc, 40mm mini fan. We sell all of these parts separately, but you can save by buying this one device. Easy to disassemble. Note: not functional without central controller.

Containe:

CAT# CDS-1	CO2 Sensor	\$10.00
CAT# THS-15	Temp/humidity sensor	\$10.00
CAT# LCD-812	8x2 LCD w/backlight	\$5.50
CAT# CF-392	12Vdc 40mm fan	\$3.25
All of this		
	*	

CAT# EX-11 \$20.00 each

TEMPERATURE AND HUMIDITY SENSOR

Temperature and

humidity sensor with a 14bit A/D converter and a serial interface circuit. Sensirion SHT-15 chip mounted on a 80 x 10mm ribbon cable. Connecting fingers on 1mm centers.

CAT# THS-15 \$10.00 each

NDIR CARBON DIOXIDE SENSOR

GE. Telaire T6004. Compact Carbon Dioxide sensing module designed to integrate into existing controls and equipment. NDIR (Non-dispersive infrared) goldplated optics. Diffusion or Flow-



through sampling. Module size: 57 x 51 x 19mm. CAT# CDS-1 \$10.00 each

PRESSURE SWITCH

Goldtech #PS-100-0021 ON=0 17"W Max. 1psi. Field adjustable. Large dia. diaphragm with 5A SPDT, snapaction switch. Norvl® (PPO) case material. Multi-barb port connection for 0.250" and 0.375". 80mm dia. x 48.5mm overall thickness. Recommend vertical mount. Overall height: 100mm. CAT# PSW-15 \$8.95 each



HUMIDISTAT

Ranco # J10-6503-200 Similar to a thermostat except it responds to relative humidity rather than temperature. Consists of a humidity sensing element,



adjustable setpoint cam and an electrical switch. The sensing element changes length in response to the exposed relative humidity to move the switch mechanisms at the appropriate switch points. Set adjustment screw to a certain limit; when that limit is reached a S.P.S.T. switch opens or closes. Outer dimensions, 86 x 26 x 40mm, excluding adjustment shaft and switch terminals.

CAT# HMC-503 \$3.50 each

TRIPLE AXIS ACCELEROMETER

BREAKOUT - ADXL335 Breakout board for the 3 axis



The ADXL335 is a triple axis accelerometer with extremely low noise and power consumption - only 320uA! Sensor has a full sensing range of +/-3g. Operates on 1.8 to 3.6 Vdc. Dimensions: 0.7 x 0.7" CAT# ACL-69 \$24.95 ea. • 10 for \$22.46 ea.

PING™ ULTRASONIC RANGE FINDER

Parallax 28015. Provides a low-cost, easy method of distance measurement. Uses sonar, an ultrasonic pulse, the echo is timed to



measure the distance-to-target. Ideal for robotics, and security applications. Provides precise, noncontact distance measurement within a 2cm to 3 meter range. Operates on 5Vdc. 0.81" x 1.8" x 0.60". CAT# PX-28015 \$29.99 each

3-AXIS GYROSCOPE MODULE

Parallax # 27911. A low-power. 3-axis (yaw, pitch and roll) angular rate sensor with temperature data as an added bonus. High shock tolerance. Power-down and sleep mode. Operates on 2.7-6.5Vdc. 0.85" x 0.80" CAT# PX-27911 \$29.99 each

COMPASS MODULE

Parallax# 29133. 3-axis, HMC5883L compass module for low-field magnetic sensing with a digital



interface. Converts any magnetic field to a differential voltage output on 3 axis. This voltage shift is the raw digital output value, which can then be used to calculate headings or sense magnetic fields coming from different directions. CAT# PX-29133 \$29.99 each

PIR (PASSIVE INFRARED) SENSOR

Parallax# 28027. Detects motion by measuring changes in infrared (heat) levels emitted by surrounding objects. When motion is detected the



PIR Sensor outputs a high signal on its output pin. This logic signal can be read by a micro controller or used to drive an external load. Detection range, 15' on short setting, up to 30' on long setting. LED for visual feedback. Operates on 3-6 Vdc. 1.41" x 1.0" x 0.9". CAT# PX-28027 \$10.99 each

ALTIMETER MODULE

Parallax # 29124. High resolution (20cm) altimeter sensor with SPI and 1²C bus interface. Includes a high linearity barometric pressure



mometer without additional sensors. Operates on 3.3-6.5Vdc.

CAT# PX-29124 \$29.99 each

ULTRASONIC TRANSDUCER

Matsushita #0D24K2. 0.95" diameter x 0.38" metal case. 0.65" long pc leads on 0.4" centers. CAT# XDR-24 \$1.25 each

10 for \$ 1.00 each



FUSES

3 AG (AGC) FUSES

STANDARD FUSES 1/4" X 1 1/4"

AMP 1/4 1/2 1 1.5 2 2.5 3 4 5 6 8 10 15 20	CAT# FS-025 FS-0.5 FS-1 FS-2 FS-2 FS-3 FS-3 FS-4 FS-5 FS-6 FS-8 FS-10 FS-15 FS-20	PACK OF 5 1.00 1.00 .75 .75 .75 .75 .75 .75 .75 .75	100 \$15.00 \$12.00
20 25 30	FS-20 FS-25 FS-30	.75 .75 .75	
30	FS-30	.75	\$12.00

SLOW BLOW 3 AG (MDL) FUSES

1/4" X 1 1/4"	SLOW BLC	OW FUSES	1
AMP	CAT#	PACK OF 5	<u>100</u>
0.5	FSSB-0.5	1.75	\$30.00
1	FSSB-1	1.75	\$30.00
1.5	FSSB-1.5	1.75	\$30.00
2	FSSB-2	1.75	\$30.00
2.5	FSSB-2.5	1.75	\$30.00
3	FSSB-3	1.75	\$30.00
4	FSSB-4	1.75	\$30.00
5	FSSB-5	1.75	\$30.00
6	FSSB-6	1.75	\$30.00

GMA SIZE FUSES

MINIATURE FUSES 3/16" X 3/4" AMP CAT# PACK OF 5

<u></u>		
GMA-05	1.00	\$15.00
GMA-1	.75	\$12.00
GMA-1.5	.75	\$12.00
GMA-2	.75	\$12.00
GMA-3	.75	\$12.00
GMA-4	.75	\$12.00
GMA-5	.75	\$12.00
GMA-6	.75	\$12.00
GMA-7	.75	\$12.00
GMA-8	.75	\$12.00
GMA-10	.75	\$12.00
GMA-12	.75	\$12.00
GMA-15	.75	\$12.00
GMA-20	.75	\$12.00
	GMA-05 GMA-1 GMA-1.5 GMA-2 GMA-3 GMA-4 GMA-5 GMA-6 GMA-6 GMA-7 GMA-8 GMA-10 GMA-12 GMA-15	GMA-1 .75 GMA-1.5 .75 GMA-2 .75 GMA-3 .75 GMA-4 .75 GMA-5 .75 GMA-6 .75 GMA-7 .75 GMA-8 .75 GMA-10 .75 GMA-12 .75

100

MINI ATC BLADE FUSES

				A Cline		
11mm wide						
AMP	<u>COLOR</u>	CAT#	<u>4 PCS</u>	100		
2	GREY	MATC-2	\$1.20	\$22.00		
3	PURPLE	MATC-3	\$1.20	\$22.00		
4	PINK	MATC-4	\$1.20	\$22.00		
5	AMBER	MATC-5	\$1.20	\$22.00		
7.5	VIOLET	MATC-7.5	\$1.20	\$22.00		
10	RED	MATC-10	\$1.20	\$22.00		
15	TEAL	MATC-15	\$1.20	\$22.00		
20	YELLOW	MATC-20	\$1.20	\$22.00		
25	CLEAR	MATC-25	\$1.20	\$22.00		
30	GREEN	MATC-30	\$1.20	\$22.00		
8 AG FUSE, 6 AMP						
1/4" X 0.9" CAT# 8AG-6 3 for \$1.00						

PIGTAIL FUSES

4A 250V 5mm x 20mm, time-lag, ceramic fuse. 4A 250V. 40mm leads. UL. CAT# PTF-4 2 for \$1.00

<u>15A 250V</u> Time-delay glass fuse. 1.25" long x 0.275" dia. body. 1.5" leads. UL. **CAT# PTF-15** 3 for \$1.00 • 100 for 25¢ each

ATC	CAUTON	IOTIVE E	BLADE	FUSES			
19mm wide. Fits fuseholder FHP-25. Four piece minimum per item.							
AMP 3 5 10 15 20 25 30	COLOR 9 VIOLET TAN RED TEAL YELLOW CLEAR GREEN	CAT# FSA-3 FSA-5 FSA-10 FSA-15 FSA-20 FSA-25 FSA-30	4 PCS \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20	100 \$22.00 \$22.00 \$22.00 \$22.00 \$22.00 \$22.00 \$22.00 \$22.00			
AG	J (5AG) F	USES A	ND HC	DLDERS			
 1.5" long x 0.41" diameter. Gold-plated fuses for high current applications. Sold in packages of 5 pieces. 32 Volt max. 30 Amp CAT# AGU-30 \$2.95 per package 40 Amp CAT# AGU-40 \$2.95 per package 50 Amp CAT# AGU-50 \$2.95 per package 60 Amp CAT# AGU-60 \$2.95 per package IN-LINE AGU FUSE HOLDERS Waterproof, clear plastic holders with pressure fittings at each end for AWG 4-10 wire. CAT # FHP-79 \$3.95 each • 10 for \$3.65 each 							
		E HOL					
	AGC (3AG) FUSE HOLDERS (for fuses 1/4" X 1 1/4")						
PANEL MOUNT Screw style cap. Holder fits 3 AG (AGC) or MDL fuses. Chassis mounting hole 0.59" (15mm) diameter. CAT# FHPM-31 90¢ each 10 for 85¢ each • 100 for 75¢ each IN-LINE AGC (3AG)							
FUSE For AG Red wir	NE AGC HOLDEI C (3AG) fus re. Fuse not FHP-2 85	ses.	0 for 75	¢ each			
GMA FUSE HOLDERS							

(for fuses 3/16" x 3/4")

Alco GMA panel mount fuse holder. Screw cap. Solder-lug terminals. Rated 10 Amps 250 Vac. **CAT# FHPM-45** 75¢ each



10 for 70ϕ each • 100 for 65ϕ each

IN-LINE GMA FUSE HOLDER W/ FUSE

Red 22 ga wire. 32" overall length. Includes F1L250V fuse. CAT# FHP-49 85¢ each • 100 for 65¢ each

ATC BLADE FUSE HOLDERS

Red 14 AWG wire with cover. CAT# FHP-25 \$1.50 each



ORDER TOLL FREE 1-800-826-5432

SWITCHES

(brackets) indicate momentary position

SUB MINIATURE TOGGLE

0.2" diameter threaded bushing unless otherwise noted.

S.P.D.T. ON-ON Rated: 3 amp @ 125 Vac. Solder lug terminals. 0.4" long bat handle. CAT# SMTS-4 \$1.35 each 10 for \$12.50 • 100 for \$110.00



D.P.D.T. ON-ON Rated: 3 amp @ 125 Vac. Solder lug terminals. 0.4" long bat handle. CAT# SMTS-8 \$1.75 each 10 for \$15.50 • 100 for \$135.00

MINIATURE TOGGLE

1/4-40 threaded bushing. 0.43" long handle unless otherwise noted

S.P.D.T. ON-ON RATED: 6 amp @ 120 Vac. Solder lug terminals.CAT# MTS-4 \$1.25 each 10 for \$11.00 • 100 for \$95.00



S.P.D.T. ON-ON

RATED: 6 amp @ 120 Vac. P.C. terminals. CAT# MTS-4PC \$1.25 each 10 for \$11.00 • 100 for \$95.00

S.P.D.T. **ON-OFF-ON** RATED: 5 amp @ 120 Vac Center off. Solder lug terminals. UL. CAT# MTS-5 \$1.25 each 10 for \$11.00 • 100 for \$95.00

SPDT ON-OFF-(ON) MINI TOGGLE SWITCH

C&K 7107. SPDT, center-off, momentary one direction, miniature toggle switch. Rated 0.4VA. Plain, 1/4" unthreaded bushing. Flat toggle handle. Horizontal switching action Right-angle pc pins.

CAT# MTS-69 \$1.00 each

D.P.D.T. ON-OFF-ON

RATED: 3 amp @ 120 Vac Threaded bushing. Solder lug terminals. CAT# MTS-12 \$1.85 each 10 for \$17.00 • 100 for \$145.00

S.P.D.T. ON-OFF-(ON)

NON-THREADED BUSHING Rated: 5 amp @ 120 Vac. Center-off P.C. style. Momentary one direction only. CAT# MTS-70PC 50¢ each 10 for \$4.75 • 100 for \$43.00

D.P.D.T. ON-ON

RATED: 6 amp @ 120 Vac. Solder lugs. CAT# MTS-8 \$1.75 each • 10 for \$16.00 100 for \$135.00



NON-THREADED BUSHING. Rated: 5 amp @ 120 Vac. P.C. terminals. Center-off. CAT# MTS-120PC \$1.50 each 10 for \$13.00 • 100 for \$100.00

DPDT MINI-TOGGLE, ON-ON

D.P.D.T. mini-toggle switch. Plain, non-threaded 0.25" diameter bushing. 0.95" long, flat toggle handle. Rated 5A, 120Vac. PC leads. CAT# MTS-75 85¢ each



3.P.D.T. ON-ON Rated 6 Amps, 125 Vac. Solder-lug terminals. CAT# MTS-60 \$2.40 each



3.P.D.T. ON-OFF-ON Rated 6 Amps, 125 Vac. Solder-lug terminals. CAT# MTS-63 \$2.60 each



4.P.D.T. ON-ON Rated 6 Amps, 125 Vac. Solder-lug terminals. CAT# MTS-70 \$3.25 each



STANDARD TOGGLE

15/32" threaded mounting bushing

15/20A TOGGLE SWITCHES

Heavy-duty, toggle switches rated 20A @ 125Vac / 15A @ 250Vac. STS-70 and STS-71 are rated 15A @ 125Vac / 10A @ 250Vac.





terminals

Note: Parentheses in DESCRIPTION, ie, (on)-off, indicates a momentary-on position.

SCREW TERMINALS

SOIL		L0		
CAT#	<u>STYLE</u>	DESC	<u>EA</u>	<u>10</u>
STS-56	SPST	on-off	\$2.00	\$1.85
STS-57	SPDT	on-on	\$2.35	\$2.10
STS-58	SPDT	on-off-on	\$2.40	\$2.20
STS-78	SPDT	(on)-off-(on)	\$2.55	\$2.35
STS-59	DPST	on-off	\$2.60	\$2.45
STS-89	DPDT	on-on	\$3.00	\$2.80
STS-60	DPDT	on-off-on	\$3.20	\$2.95
STS-79	DPDT	(on)-off-(on)	\$3.35	\$3.05
STS-80	DPDT	(on)-off-on	\$3.55	\$3.25
STS-70	4PDT	on-on	\$3.65	\$3.40
STS-71	4PDT	on-off-on	\$3.85	\$3.65

SOLDER / 0.25" QC TERMINALS						
CAT#	<u>STYLE</u>	DESC	<u>EA</u>	<u>10</u>		
STS-94	SPST	on-off	\$2.10	\$1.95		
STS-95	SPDT	on-on	\$2.45	\$2.20		
STS-96	SPDT	on-off-on	\$2.50	\$2.30		
STS-100	SPDT	(on)-off-(on)	\$2.65	\$2.45		
STS-97	DPST	on-off	\$2.70	\$2.55		
STS-98	DPDT	on-on	\$3.10	\$2.90		
STS-99	DPDT	on-off-on	\$3.30	\$3.05		
STS-101	DPDT	(on)-off-(on)	\$3.45	\$3.15		
STS-102	DPDT	(on)-off-on	\$3.65	\$3.35		

DUAL SPST TOGGLE SWITCH

Rated 3 Amps @ 125 Vac. Looks like a DPST toggle switch, but it is actually two separate single pole switches. When one is open, the other is closed. Solder terms.



CAT# STS-20 \$1.50 each

TOGGLE SWITCH SAFETY COVERS

For most standard toggle switches, ie., our CAT# STS. Fits over 15/32" dia. bushing. Prevents accidental switching. When cap closes



it switches toggle to down position. Cap must be open to change switch position. Cap stays open at 90 Degree angle, but springs to closed position with light touch.

Translucent Red **CAT# SC-518** \$2.00 each • 10 for \$1.75 each

Black **CAT# SC-510** \$2.00 each • 10 for \$1.75 each

Carbon-fiber look CAT# SC-514 \$2.00 each • 10 for \$1.75 each

12V LIGHTED ROCKER SWITCHES

12V LIGHTED ROCKER SWITCHES,

ROUND S.P.S.T., on-off 12V lighted rocker switch. Round body. Rated 16A. Can be wired to be always on, or when contacts are closed. Solder or 0.187" qc terminals.

0.90" DIA. BEZEL, 12V INCANDESCENT LAMP Lighted red rocker with on-off symbols. Mounts in 0.8" diameter hole. CAT# LRS-32 \$1.85 each



0.90" DIA. BEZEL, ROCKER W/ LED available with red, green, amber or blue LED embedded in one side of rocker. Built-in resistors allow LEDs to light on 12 Vdc. Mounts in 0.8" diameter hole. CAT# LRS-28X (X=R, G, A or B) \$2.20 each

12V incandescent S.P.S.T. rocker. 0.65" dia. bezel, 0.45" diameter. Red. Snap-mounts in 0.59" diameter hole. Rated 6 amps. Solder loop terminals. CAT# LRS-31 \$1.95 each



12 VDC LED LIGHTED ROCKERS (OVAL)

S.P.S.T., on-off, surface-mount rocker switches with red LED indicators. Built-in resistors for 12 Vdc operation. Surface mount switch with threaded bushing with nut, conveniently mounts in 0.48" dia. hole. Matte-black oval switch with LED on one side of rocker. Above panel dimensions are 1.22" x 0.78" x 0.63" high. 0.25" qc / solder terminals. Rated 20 A / 12 Vdc. Available with LEDs in four colors, red (R), green (G), amber (A), and blue (B). **CAT# LRS-30X** (X=R, G, A, or B) \$2.20 each

12V LIGHTED PADDLE SWITCHES

S.P.S.T., on-off, lighted paddle switch. Standard 15/32" threaded mounting bushing. 1.15" long x 0.43" wide plastic paddle (toggle). 12V lamp in body of switch radiates, with a soft light, through the opaque paddle. Light is on when switch is on. Available in red, green, blue and amber. Red and amber are brighter than blue and green when lit. 0.25" qc / solder terminals. **CAT# LPS-8(X)** X=R (red), G (green), B (blue), A (amber) \$3.20 each • 10 of one color \$3.00 each

ROCKER SWITCHES

ROUND ROCKERS

Matte-black, single-pole rocker switches. Snap-mount in 0.8" diameter hole. 0.9" diameter bezel. 0.6" diameter round rocker. Rated 13 Amps / 125 Vac. Solder or 0.187" qc terminals. TUV. Three configurations available:



 ON-OFF, S.P.S.T.
 CAT# RS-144
 \$1.25 each

 ON-ON, S.P.D.T.
 CAT# RS-145
 \$1.35 each

 ON-OFF-ON, S.P.D.T, center-off
 CAT# RS-146
 \$1.40 each

ON-OFF ROCKER SWITCH, 20 AMP

S.P.S.T. rocker switch. Matte black rocker and bezel. 1.22" x 0.67" bezel. Switch snap-mounts in 1.15" x 0.55" cutout. 0.25" qc / solder terminals. Rated 20 Amps @ 125 Vac. UL, DVE. CAT# RS-148 60¢ each 10 for 50¢ each • 100 for 40¢ each

"ON-OFF" in white lettering on rocker. **CAT# RS-147** 60¢ each 10 for 50¢ each 100 for 40¢ each



DPST ROCKER SWITCH

SMK #BZ35. D.P.S.T., on-off rocker switch. Matte-black bezel (21 x 15mm) and rocker. Rocker has embossed white symbols – and O which appear on edge of rocker. Snap-mounts into 20 x 13mm rectangular cut out. Rated 6A/ 125Vac. 0.185" QC or solder

terminals. UL, CSA. **CAT# RS-189** 65¢ each 100 for 50¢ each

ON-OFF ROCKER SWITCH

Arcolectric # 1500AABB-1102. S.P.S.T., on-off rocker switch. Black rocker and bezel. Bezel is 1.20" x 0.55". "ON" and "OFF" embossed on rocker in white letters.



Snap-mounts in 1.1" x 0.47" chassis cutout. Rated 16A 250V. 0.25" qc/ solder terminals. UL, CSA. CAT# RS-152 60¢ each

10 for 50ϕ each • 100 for 40ϕ each 500 for 35ϕ each • 1000 for 30ϕ each

DPST 15A ROCKER SWITCH

Schurter #6050.5515. DPST, onoff switch. Rated 15A 125/250 Vac. Black bezel and rocker with white on-off symbols (I - 0). Snap-mounts into 28mm x 26mm chassis cutout, 1.5mm thick. Switch is slightly recessed (3mm) below bezel, PC leads. UL, CSA. CAT# RS-183 50¢ each • 100 for 40¢ each

SPDT ON-OFF-ON ROCKER SWITCHES

S.P.D.T., center-off rocker switch. Rated 16A @ 125Vac. Snap-mounts into 26mm x 15mm rectangular cutout. Black rocker and bezel. 0.25" QC/ solder terminals. White lettering or symbols etched in rocker. Three styles:

CAT# RS-179 1 - OFF - 2 (Vertical Orientation)

CAT# RS-191 FAS - OFF - ON (Vertical Orientation)

CAT# RS-193 FAS – O – I (Horizontal Orientation)

> 75¢ each • 10 of one style 65¢ each 100 of one style 50¢ each

DPDT MINI-ROCKER, ON-OFF-(ON)

DPDT, center-off, momentary one direction. Miniature rocker switch rated 0.4VA. Black plastic rocker, 0.75" x 0.27" x 0.40" high. PC pins on 0.25" x 0.125" centers. CAT# RS-182 50¢ ea. 50 for 35¢ each • 100 for 30¢ each

SPST ROCKER SWITCH W/ "MASTER" SYMBOL

S.P.S.T. matte-black, single-pole rocker switch. Two-tone and MASTER painted on rocker to show ON-OFF position. Vertical mounting, switch snap mounts in 1.15" x 0.51" cutout. 0.25" QC/solder terminals. 16A @ 125 VAC, 10A @ 250 Vac. CAT# RS-196 60¢ each UL, CSA.

SPST ROCKER SWITCH W/ LIGHT SYMBOL

S.P.S.T. matte-black, single-pole rocker switch. HI-LOW symbol painted on rocker for vertical mounting and two-toned to show position of switch. Switch snap mounts in 1.15" x 0.51" cutout. 0.25" QC/solder terminals. 16A @ 125 Vac, 10A @ 250 Vac. UL, CSA.

CAT# RS-199 60¢ each

SPST ROCKER SWITCH

S.P.S.T. matte-black, single-pole rocker switch. ON-OFF symbol painted on rocker. Switch snap mounts in 1.15" x 0.51" cutout. 0.25" QC/solder terminals. 16A @ 125 Vac, 10A @ 250 Vac. UL, CSA. CAT# RS-198 60¢ each

D.P.D.T. ON-ON ROCKER SWITCH

Dreefs# 3082/2. Rated 16 A @ 250 Vac. Black bezel 26.6mm x 32.6mm and rocker with white symbols: I - II. Snap-mounts in 21.8mm x 27.6mm chassis cutout. 0.25" q.c. / solder terminals.



UL, CSA, DVE. CAT# RS-190 \$1.60 each

2-POSITION SLIDE SWITCHES

MINI-SLIDE SWITCH, RT-ANGLE

Miniature S.P.D.T. slide switch. 11 x 5 x 9mm high (includes slide length). Right-angle pc leads. CAT# SSW-53 4 for \$1.00

100 for 20¢ each • 1000 for 12¢ each VISIT OUR WEBSITE -

MINI-RT-ANGLE SLIDE SWITCH, SPDT

Alcoswitch # TSS11DG1RA. Miniature SPDT slide switch. Flush slider requires use of fingernail or screwdriver to activate switch. Right-angle, pc mount. Switch face is 10 x 5mm. Body extends 10mm behind face. Rated 0.4VA. USA made. CAT# SSW-61 3 for \$1.00

DPDT MINI-SLIDE, RT. ANGLE

0.37" x 0.13" x 0.13" high. Horizontal slide lever. PC leads on 0.1" centers. CAT# SSW-45 4 for \$1.00 • 100 for 20¢ each

MINI-SLIDE SWITCH, RIGHT-ANGLE

Mouser# 10SP013. Miniature S.P.D.T. on-on slide switch. 13.3 x 6 x 13mm high (includes slide and terminals). 0.5A / 50 Vdc. PC leads and two support tabs. CAT# SSW-76 4 for \$1.00



100 for 20¢ each

DPDT SLIDE SWITCH

Standard D.P.D.T. switch with mounting holes on 0.75" centers. Body size: 0.6" X 0.28". Solder-loop terminals. CAT# SSW-37 4 for \$1.00

100 for 20¢ each • 1000 for 12¢ each

ON-OFF SLIDE SWITCH

S.P.S.T., on-off slide switch. Rated 6A / 125Vac. Body: 0.88" x 0.56." Mounting tabs with holes on 1.15" centers. Solder-lug terminals. UL, CSA. CAT# SSW-51 3 for \$1.00 200 for 18¢ each • 1000 for 14¢ each

SLIDE SWITCH, DPDT

C&K L Series. DPDT slide switch. Rated 4A @ 125Vac. Plastic handle and body. Body is 0.76" x 0.43". Mounting holes on 1" centers. Solder loop terminals. UL, CSA. CAT# SSW-55 45¢ each • 10 for 40¢ each

DPDT MINI SLIDE SWITCH

Standard D.P.D.T. switch with mounting holes on 0.75" centers. Body size: 0.6" X 0.30". Solder-loop terminals. 4 for \$1.00 CAT# SSW-77 100 for 20¢ each • 1000 for 12¢ each

2-POLE, 4-POSITION SLIDE SWITCH

ON-ON-ON. Each pole has five terminals, two connected in each position. 0.52" x 1.44" x 0.35". Mounting tabs on 1.68" centers.



1A @ 125 Vac. 0.5A @ 125 Vdc. Solder/PC pins. UL. CAT# SSW-69 50¢ each • 10 for 45¢ each

3-POSITION SLIDE SWITCHES ON-ON-ON

Each pole has four terminals, two of which are connected in each position.

1-POLE, 3-POSITION Mounting holes on 1" centers. 0.47" long slider. Solder-lug terminals. CAT# SSW-62 50¢ each 100 for 35¢ each

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2-POLE. 3-POSITION

Mounting tabs on 1.41" centers. 4A @ 14V. Solder loop terminals. UI CAT# SSW-70

50¢ each • 10 or more 45¢ each

2-POLE, 3-POSITION SLIDE SWITCH

Two poles, each with a different switching configuration. On one pole, a common terminal connects to one of three other terminals. On the other pole two



different terminals connect in each position. 45 x 9 x 12mm. Solder-lug terminals. Tapped holes on switch face on 39mm centers.

CAT# SSW-73 50¢ each • 10 for 45¢ each

2-POLE, 3-POSITION

1/8" high slider. Mounting tabs on 1.0" centers. 0.5A @ 125 Vac/dc. Solder / PC pins. UL. CAT# SSW-71 50¢ each • 10 or more 45¢ each

3-POLE, 3-POSITION

Mounting tabs on 1.0" centers. 3A @ 125 Vac, 0.5 A @ 125 Vdc. Solder / PC pins. UL. CAT# SSW-68

75¢ each • 10 for 65¢ each

4-POLE, 3-POSITION

Mounting tabs on 1.38" centers. 4A @ 125 Vac, 1.5A @ 250 Vac. Solder / PC pins. UL.



CAT# SSW-67 \$1.00 each • 10 for 85¢ each

SNAP ACTION SWITCHES

LARGE BODY STYLE

HEAVY-DUTY SNAP-ACTION SWITCH

Cherry # GPTBNC11. 20A 125 Vac / 250 Vac, 1HP, S.P.D.T. snap-action switch. Ultra-small travel. 22.9oz operating force. Body: 50 x



17.5 x 27.5mm. 7.5mm diameter plunger extends 7mm above switch body. Two mounting holes on 25mm centers. Screw terminals. cULus. CAT# SMS-249 \$2.95 each

HEAVY-DUTY SNAP-ACTION SWITCH W/ LEVER

Cherry # GPTBLR11. 20A 125 Vac / 250 Vac, 1HP, S.P.D.T. snap-action switch.



Ultra-small lever travel. 9oz operating force. Body: 50 x 17.5 x 27.5mm. Metal lever extends 12mm beyond edge of body. Two mounting holes on 25mm centers. Screw terminals. cULus. CAT# SMS-295 \$3.75 each

15A N.O. MOMENTARY

Cherry E13. S.P.S.T. normallyopen switch. Plunger height, 11mm. Mounting holes on 26mm centers. Rated 15A 125/250Vac, 3/4HP 125Vac, 1.5HP 250Vac. 46.5 x 16 x 16mm body. 0.25"qc/solder terminals. UL, CSA. CAT# SMS-301 \$1.35 each 10 for \$1.20 each



ORDER TOLL FREE 1-800-826-5432

15 AMP S.P.D.T.

Unimax . 15 Amps @ 125/250 Vac. Body size: 1.81" x 0.64" x 0.64". 0.25" qc / solder terminals.



3/8" dia. x 0.4" long threaded bushing. 0.25" dia. plunger. UL, CSA. CAT# SMS-203 \$1.50 ea. 10 for \$ 1.30 each • 100 for \$ 1.00 each

> STANDARD BODY STYLE BODY SIZE: 3/8" X 5/8" X 1 1/8"

SPDT SNAP-ACTION SWITCH WITH LEVER

Vabsco # BR15IS-QACM. S.P.D.T. snap-action switch rated 15 Amps @ 125/250 Vac. Lever extends 1.75" beyond end of switch. 0.187" g.c. / solder terminals. UL.



CAT# SMS-196 \$2.30 ea. • 100 for \$1.90 ea.

LEVER WITH CURVED TIP

S.P.D.T., contacts rated 10 Amps @ 125/250 Vac. Metal lever with simulated roller tip extends 0.45" beyond end of switch. 0.25" qc / solder terminals. UL. CAT# SMS-223 \$1.25 each

SPDT SNAP-ACTION SWITCH W/ SIM **ROLLER TIP LEVER**

Mulon #M8-1P1DM3. Rated 5A, 250Vac.



Simulated roller tip extends 0.44" beyond end of switch. Switch body dimensions: 1.1" x 0.62" x 0.40". 0.25" QC/ solder terminals. \$1.00 each CAT# SMS-298 100 for 85¢ each

SPDT SNAP-ACTION SWITCH W/ LEVER Vabsco # BR15IL-EACF.



S.P.D.T. snap-action switch rated 15 Amps @ 125/250 Vac. Lever extends 0.45" beyond end of switch. 0.25" quick-connect / solder terminals. CAT# SMS-195 \$2.20 each 100 for \$1.85 each

SPST N.O. SNAP-ACTION SWITCH W/ LEVER

Mulon # M8A-1PDM1. Rated 5A, 250Vac. Straight lever extends 0.40" beyond end of switch. Switch body dimensions: 1.1" x 0.62" x 0.40". 0.187" QC/ solder terminals.



CAT# SMS-299 90¢ each • 100 for 75¢ each

S.P.D.T. W/ LEVER

S.P.D.T., contacts rated 10 Amps @ 125/250 Vac. Metal lever extends 0.45" beyond end of switch. 0.25" qc / solder terminals. UL. CAT# SMS-222 \$1.10 each



SPDT SNAP-ACTION SWITCH, 10 AMP

S.P.D.T. switch, no lever. Rated 10 Amp @ 125/250 Vac. 0.25" gc / solder terminals. UL. CAT# SMS-226 \$1.10 each 10 for \$1.00 each • 100 for 85¢ each



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SPDT SNAP-ACTION SWITCH, 5A

No lever. Rated 5A, 125/250Vac. Solder/ 0.187" qc terminals. CE. **CAT# SMS-243** 90¢ each • 100 for 75¢ each



SPDT SNAP-ACTION SWITCH

Omron # D3V-6G-1C24-K. S.P.D.T. switch, rated 6A @ 250Vac 1/4HP 125/250Vac. No lever. Standard body size, 28 x 16 x 10mm. #187 qc/ solder terminals. UL, CSA, VDE.

CAT# SMS-300 95¢ each 100 for 80¢ each



SPDT SNAP-ACTION SWITCH WITH ROLLER LEVER

Vabsco # BR15IL-QAJE-1.34. S.P.D.T. snap-action switch rated 15 Amps @ 125/250 Vac. Lever with roller-tip extends 0.45" beyond



end of switch. 0.187" quick-connect / solder terminals. UL. **CAT# SMS-197** \$2.45 each 10 for \$ 2.35 each • 100 for \$ 2.20 each

10 AMP SWITCH W/ ROLLER LEVER

S.P.D.T. snap-action switch rated 10 Amps @ 125/250 Vac. Lever with roller-tip extends 0.45" beyond end of switch. 0.25" quick-connect / solder terminals. UL



CAT # SMS-231 \$ 2.25 each 10 for \$ 2.10 each • 100 for \$ 1.90 each

SMALL SIZE BODY

MINI-SNAP-ACTION SWITCH W/ ROLLER LEVER

Omron # SS-5GL2T. S.P.D.T. snap-action switch with roller lever that extends 3mm beyond end of switch.



extends 3mm beyond end of switch. Rated 5A, 125/ 250Vac. Body: 20 x 6.50 x 10mm. Solder-lug terminals. UL, CSA, DVE. CAT# SMS-21 \$1.50 each

SPDT MINI SNAP-ACTION SWITCH

Microswitch # 3SX1-H58. S.P.D.T., 1A 125Vac miniature snap-action switch. Body: 12.7 x 9.0 x 5mm. Two mounting holes on 5mm centers. Gold-plated turret terminals. UL, CSA. **CAT# SMS-247** \$1.25 each

S.P.D.T. W/ LEVER

Metal lever extends to end of switch. Rated 5 Amps / 250 Vac. Body size: 0.78" x 0.25" x 0.42" high. Solder lug terminals. CE. **CAT# SMS-220**



S.P.D.T., Rated 5 Amps / 250 Vac. Metal lever with roller tip extends 0.15" beyond end of switch. Body size: 0.78" x 0.25" x 0.42" high. Solder-lug terminals. CE. **CAT# SMS-219** \$ 1.30 each

CURVE TIP LEVER

S.P.D.T., Rated 5 Amps / 250 Vac. Metal lever with simulated roller tip extends 0.12" beyond end of switch. Body size: 0.78" x 0.25" x 0.42" high.



\$1.10 each

Body size: 0.78" x 0.25" x 0.42" high. Solder-lug terminals. CE. **CAT# SMS-221** \$1.00 each

S.P.D.T. MINI-SNAP-ACTION SWITCH

Highly SS Series. Simulated roller-tip lever. Lever tip extends 0.1" beyond end of switch. S.P.D.T. contacts rated 5 Amps @ 125/250 Vac. Body, 0.78" x 0.42" x 0.25." Solder terminals. UL.



CAT# SMS-227 \$1.00 ea. • 10 for 85¢ ea.

SPDT MINI-SNAP-ACTION SWITCH W/ LEVER

Cherry DB3 miniature snap-action switch. S.P.D.T., 0.1A 125/250V contacts. Short solder loop terminals. Body is 20 x 9 x 6.5mm. (0.79" x 0.35" x 0.25") Plastic lever extends 9mm (0.36") beyond end of switch body. cULus.



CAT# SMS-302 85¢ each • 100 for 70¢ each

ROTARY SNAP ACTION

Cherry switch #E5348E0. S.P.D.T. Rotary snap action with lever, counterclockwise travel. Rated 0.1 A @ 125/250 Vac. 0.187" q.c. / solder terminals. UL, CSA

CAT# RSM-1 \$2.00 each

TACTILE PUSH BUTTONS





CAT# PB-126 4 for \$1.00 • 100 for \$22.50 500 for \$100.00 • 1000 for \$180.00

TACTILE PUSHBUTTON W/ PLUNGER

S.P.S.T., normally-open, momentary pushbutton. Plunger height is 13mm above pc mounting surface. 0.24" square body. Leads on 0.15" x 0.25" centers. **CAT# MPB-218** 35¢ each 100 for 25¢ each

MINI-TACTILE PUSHBUTTON SWITCH, SURFACE MOUNT



ITT France. S.P.S.T., momentary normally-open miniature pushbutton. 6mm square body. Four surface mount leads on 4 x 8mm centers. **CAT# MPB-142** 3 for \$1.00 100 for 29¢ each • 1000 for 23¢ each

SPST MOMENTARY TACTILE PUSHBUTTON, PC MOUNT



Omron B3W. S.P.S.T. momentary-on pushbutton for pc mount. 12 x 12 x 4mm high. 7.3mm diameter white plunger. Switching capacity: 50 mA, 5 to 24 Vdc (resistive load). Four pc leads on 4.5 x 6.5mm matrix. **CAT# MPB-224** 35¢ each • 100 for 27¢ each

SPST MOMENTARY TACTILE PUSHBUTTON, PC MOUNT

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Alps. S.P.S.T. momentary-on pushbutton for pc mount. 12 x 12 x 4mm high. 8mm diameter black plunger. Four pc leads on 4.5 x 6.5mm matrix. CAT# MPB-223 35¢ each • 100 for 27¢ each

SPST MINI RIGHT-ANGLE TACTILE PUSHBUTTON

S.P.S.T., normally-open, momentary pushbutton. Rated 50 mA @ 12 Vdc. Right-angle mounting. PC leads.



SMS-221 \$1.00 each FAX YOUR ORDER 24 HOURS A DAY (818) 781-2653

SURFACE-MOUNT



Alps #SKHUQB056A. Miniature surface mount pushbutton switch. S.P.S.T., normallyopen. 6.2 x 6.5mm. 3.1mm stem height. 0.25mm travel. Contacts rated 50mA @ 12 Vdc. Tape-andreel packaging.

CAT# MPB-136 3 for \$1.00 • 100 for 29¢ ea. 1000 for 23¢ each • 3000 for 15¢ each

MOMENTARY PUSHBUTTON SWITCHES

MOMENTARY N.O. MINI-SWITCH

S.P.S.T. miniature momentary pushbutton switch. Push-on, release-off. Press-fit in 0.31" diameter chassis hole. 0.39" diameter black bezel. Green button extends 0.29" above mounting plane in off-position. Switch body is 0.31" dia. x 0.5" long (excluding pc pins) below mounting plane.

CAT# PB-159 35¢ each • 100 for 25¢ each

NORMALLY-OPEN MOMENTARY

S.P.S.T., normally-open, momentary pushbutton switch rated 3A/ 125V. 10mm diameter red button. 14.5mm diameter x 7mm high black bezel. Threaded bushing mounts in 10mm diameter hole. Solder terminals. CAT# PB-179 \$1.00 each 10 for 90¢ each • 100 for 78¢ each

NORMALLY-OPEN MOMENTARY (FLAT)



Heavy-duty metal pushbutton switch. Normally-open, momentary action. Nickel-plated button is flush with bezel



CAT# PB-144 \$ 3.95 each

NORMALLY-OPEN **MOMENTARY (DOME)**

Heavy-duty metal dome pushbutton switch. Normally-open, momentary action. Nickel-plated dome and bezel measure 0.86" diameter x 0.12" high.

Threaded bushing mounts in 0.75" dia. hole in panels up to 0.35" thick. Screw-clamp terminals. Rated 4 Amp / 125 Vac.

CAT# PB-143 \$ 3.95 each

RED PUSHBUTTON WITH METAL BEZEL

S.P.S.T momentary pushbutton. 0.51" dia. red plunger, 0.74" dia. metal bezel. 0.62" diameter threaded bushing mounts in panels up to 0.15" thick. Solder lug terminals. 4A 125 Vac.



\$1.75 each

\$1.75 each

Normally-open Normally-closed

CAT# PB-160 CAT# PB-145

SPDT MOM. PUSHBUTTON, PC MOUNT

Eaton 9641. Miniature S.P.D.T., momentary switch rated 5 Amps / 125 Vac. Red 0.38" dia. cap press-fits on a 0.12" dia. plunger. 0.23" dia. unthreaded bushing. Gold-plated pc pins on 0.125" centers. UL. CAT# PB-151 40¢ each

10 for 35¢ each • 100 for 25¢ each

JUMBO PUSHBUTTONS

Durable plastic S.P.D.T. momentary pushbutton switch frequently found in arcade games. Button operates a 3 Amp snap-action switch. Plunger is 0.86" dia. Bezel is 1.33" dia. Threaded bushing is 1.1" dia. and will mount in panels up to 0.75" thick. Includes large plastic mounting nut.



RED SWITCH CAT# PB-211 \$3.75 each GREEN SWITCH CAT# PB-214 \$3.75 each YELLOW SWITCH CAT# PB-215 \$3.75 each

GAME SWITCH S.P.D.T. MOMENTARY PUSHBUTTON

Rugged momentary pushbutton switch designed for games and other repetitive applications. SPDT snapaction switch rated 5 Amps @ 125/250 Vac. 1.31" dia. x 0.15" high white bezel. 1.06" diameter threaded plastic bushing with nut. Fits panels up to 0.8" thick. 0.9" dia. opaque plastic plunger is available in red (R), green (G), blue(B), and amber(A). CAT# PB-9(color) \$3.00 each • 10 for \$2.75 each

SPST N.O. PUSHBUTTON

Single-pole, normally-open momentary switch. Attractive and functional dome-shaped pushbutton, 0.70" dia, black plastic bezel. 0.45" button. Extends 0.3" above mounting plane. Threaded bushing mounts in 0.52" dia. hole. Solder terminals.

\$1.50 each • 100 for \$1.20 each

MOMENTARY PUSHBUTTONS

(On)-(On), heavy-duty pushbutton with metal plunger and mounting bushing. Ideal for foot-switch or hard physical use. 15/32" threaded bushing for panels up to 0.5" thick. 0.4" diameter plunger. Solder terminals. Rated 2A 250Vac.



SPDT **CAT# PB-174** \$4.00 each DPDT **CAT# PB-176** \$4.80 each

LARGE, SURFACE-MOUNT PUSHBUTTON

S.P.S.T., normally-open, momentary pushbutton switch. 1.6" dia. metal body with mounting flanges, holes on 2.3" centers. Originally for auto-

motive horn application. 0.84" dia. black push-button, 0.95" overall height. Packaged with 2 mounting screws. CAT# PB-156 \$1.75 each

N.O. MOMENTARY

S.P.S.T. normally-open, momentary pushbutton switch. Heavy-duty metal plunger, suitable for foot switch applications. 15/32" threaded bushing mounts in panels up to 1/2" thick. Solder-loop terms.



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CAT# PB-142 \$2.75 each 4 Amps / 125 Vac CAT# PB-147 10 Amps / 125 Vac

\$3.25 each



LARGE MOMENTARY PUSHBUTTON SWITCH

Black plastic momentary pushbutton. Fairly rugged S.P.S.T., normallyopen switch, possibly designed for gaming purposes. 19.5mm

dia. plunger in a 29mm dia. x 20mm high case. Mounting holes on 50mm centers. 0.187"qc/ solder terminals. Can be surface mounted or mounted from behind panel through 29.5mm diameter hole. Note: terminals are tarnished but functional.

CAT# PB-225 \$1.15 each 10 for \$1.00 each • 100 for 75¢ each

SPST N.O. MOMENTARY PUSHBUTTONS

Normally open switch with 1/4" bushing and plastic button. Ideal for most low current projects.

Red button Black button Blue button Green button Yellow button White button

CAT# MPB-1 CAT# MPB-1B CAT# MPB-1BL CAT# MPB-1G CAT# MPB-1Y CAT# MPB-1W



85¢ each • 100 for 65¢ each

1/4" threaded bushing. Black plastic

SPST MOMENTARY NORMALLY **CLOSED PUSHBUTTON**



pushbutton. Solder-loop terminals. CAT# MPB-5 60¢ each • 100 for 45¢ each

> LIGHTED MOMENTARY PUSHBUTTON SWITCHES

Momentary lighted pushbutton switches, with polycarbonate lens assemblies, designed for displays and games. The rugged S.P.D.T snap-action switch assembly is designed for millions of operations. Rated 5 Amps @ 125/250 Vac. The assembly is lighted with a replaceable 12 Volt, 3 Watt, #161 wedge-base lamp. Matte black plastic bezels. 0.93" diameter threaded bushing with a plastic nut mounts in panels up to 0.70" thick. Colors: Red (R), Green (G), Blue (B), Amber (A), and White (W).

1" ROUND LENS

1.25" diameter x 0.3" high bezel. Lens colors: red (R), green (G), blue (B), amber (A) and white (W). CAT# LPS-1(color) \$ 3.75 each • 10 for \$ 3.45 each



2" ROUND LENS

2.44" diameter x 0.58" high bezel. Lens colors: red (R), green (G), blue (B), amber (A) and white (W). CAT# LPS-3(color) \$4.75 each 10 for \$4.35 each





1.96" square x 0.40" high bezel. Lens colors: red (R), green (G), blue (B), amber (A) and white (W).

CAT# LPS-5(color) \$4.75 each 10 for \$4.35 each

DIP SWITCHES

LOW PROFILE STYLE **ON-OFF SLIDE SWITCHES** 4-Position CAT# DWS-4S \$1.00 each 8-Position CAT# DWS-8S \$1.35 each 10-Position CAT# DWS-10S \$1.50 each

STANDARD STYLE 8 position CAT# DWS-8 \$1.35 each

STANDARD STYLE 10 position. CAT# DWS-10 75¢ each • 100 for 55¢ each

PIANO-STYLE 10 position. CAT# DWS-10P \$1.50 each



PUSH-ON PUSH-OFF SWITCHES

DPST PUSH-ON/ PUSH-OFF

ITT Schadow NE18 T70 Body is 32 x 15 x 9mm.

6A 125/250Vac. PC terminals. Three plastic pins at front of switch for mounting stability. 3.5mm square plunger. UL, CSA.

CAT# PB-181 50¢ each

DPDT PUSH-ON / PUSH-OFF SWITCH

0.5" x 0.3" x 0.38" body. 1" overall length including plunger. PC pins. **CAT# PB-182**



3 for \$1.00 • 10 for 30¢ each

S.P.S.T. ON/OFF

S.P.S.T., on-off, push-on/push-off switch rated 3A/ 125V. 10mm diameter red button. 14.5mm diameter x 7mm high black bezel. Threaded bushing mounts in 10mm diameter hole. Solder terminals. CAT# PB-177

\$1.35 ea. • 10 for \$1.20 ea. • 100 for \$1.05 ea.

HEAVY-DUTY PUSHBUTTONS

Push-on / push-off switch. Ideal for footswitch applications. Metal plunger. 15/32" threaded bushing mount. Rated 2A/ 250Vac. Solder terms.



S.P.D.T. CAT# PB-173 \$3.75 each DPDT CAT# PB-175 \$4.50 each

PUSHBUTTON SWITCH

Judco model# J-188A-1. SPST, push-on push-off, plastic pushbutton. Contacts rated 6 amps @ 125 Vac. Black body, actuator and panel nut. 3/8-27 threaded bushing. 4 1/2" stranded wire pigtails. UL listed. For moisture-resistant cap/nut see CAT# WPC-3. CAT# PB-13 \$1.85 each • 100 for \$1.50 each



Judco # J-188-7. Four-position, three-wire pushbutton switch.

Push 1 - no connection Push 2 - red, white connect Push 3 - red, white and black connect Push 4 - red, black connect.



CAT# PB-168 \$1.50 ea. • 100 for \$1.15 ea.



AX YOUR ORDER 24 HOURS A DAY (818) 781-2653

BLACK RUBBER BOOT/CAP

Rubber cap fits snugly over 13mm diameter knurled nut on Judco pushbutton switches. Helps prevent dust and moisture contamination. For best results, insert nut into cap before installation

Fits CAT# PB-13

CAT# WPC-3 50¢ each • 100 for 40¢ each Fits CAT# PB-168

CAT# WPC-2 30¢ each • 100 for 20¢ each

PUSH-ON/PUSH-OFF SWITCH. SPECIAL



Judco SPST, push-on/push-off switch. Solid tactile, snap-action feel. Solder-lug terminals.

Note: Switch was for a custom application. The 3/8-27 threaded bushing is only 1/8" long. With the knurled plastic nut attached, the switch can be used in a 1/16" thick panel, or a thinner panel if a washer or spacer is used. Also, the plunger is terminated with a 1/8" (3mm) diameter tip configured for a custom cap (not included). CAT# PB-189 2 for \$1.00 100 for 40¢ each

SPST PUSH-ON/PUSH-OFF SWITCH

Judco. SPST, push-on push-off, plastic pushbutton. Contacts rated 6 amps @ 125 Vac. 3/8-27 threaded bushing. 4 1/2" stranded wire pigtails. UL listed. For moisture-resistant cap/nut see CAT# WPC-3. CAT# PB-190 \$1.85 each 10 for \$1.70 each



PULL CHAIN SWITCHES

Push-in terminals for solid copper wire. Push stripped wire into slot where it locks into place. 1.25" diameter x 0.85" plastic 🕵 housing with 3/8" diameter threaded mounting bushing. Rated 3A 250Vac/6A 125Vac. UL

2-POSITION CEILING FAN SWITCH

Four terminals. 1st pull closes two terminals. 2nd pull closes other two terminals. CAT# PSW-14 \$2.25 each

3-POSITION, ON-ON-ON

1st position connects terminals 1 & 2. 2nd position connects 1 & 3. 3rd position connects 2 & 3. CAT# PSW-16 \$2.35 each

IN-LINE THUMBWHEEL SWITCH FOR SPT-1 CORD

Ying Long # YL-2. White plastic on-off thumbwheel switch for SPT-1 zip cord. No soldering necessary. Simply cut out a small portion of one side of the zip cord, and screw the two halves of the



switch together over the cord. The prongs pierce the insulation on either side of the cut and make a connection between the line and the switch. Rated: 6 A 125 vac, 3 A 250 vac, 3A 125V. UL, CSA listed. CAT# SWT-2 50¢ each • 10 for 45¢ each

3-POSITION KEYSWITCH

3-position, 4-terminal kev switch. Each position sequentially connects two of the four terminals. Kev is removable in each position. C&K switch body is rated 0.4VA, 20V max. Gold solder terminals. Threaded bushing with nut. Mounts in 0.75" diameter hole in panels up to 0.25" thick. Switch body extends 1.4" below mounting plane. 1" diameter x 0.22" thick grav plastic bezel. Includes two keys and a 1" long metal cam which can be inserted into a slot in the switch and rotates with the key.

CAT# KSW-30 \$3.75 each

ON-OFF KEYSWITCH, PC MOUNT

Siemens S.P.S.T., on-off keyswitch. 18 x 18 mm square x 19mm high. Key removable on both positions. Four PC leads on 7.5 x 10mm centers. Includes two kevs. CAT# KSW-112

\$3.85 each

KNIFE SWITCHES

S.P.D.T. Screw terminals. Rated 10A / 12Vdc. Base is 75 x 12 x 9mm high. Two mounting holes on 46mm centers. CAT# SWS-10 \$2.25 each



Screw terminals. Rating unknown. Base is 37 x 38 x 8mm high. Two mounting holes on 27mm centers.

CAT# SWS-11 \$2.75 each

2-POLE 3-POSITION **ROTARY SWITCH**



6mm knurled, split shaft is 10mm long. Solder lug terminals. CAT# RSW-50 85¢ each 10 for 75¢ each

ALARM SWITCHES

STANDARD MAGNETIC **PROXIMITY SWITCH**

For closed loop alarm systems. Switch is closed when magnet is near. Cover hides screw terminals. Off-white switch and magnet. UL.

CAT# MS-14 \$4.25 each • 10 for \$40.50

SPDT

Can be used on normally open or normally closed loop systems. Switch measures 2" long X 3/8". CAT# MS-7 \$4.50 each 10 for \$4.25 each



PRESS-FIT MAGNET SWITCH

Press-fit into 3/8" hole. Ideal for windows and doors. For normally closed systems. 0.75" operating gap. U.L. listed.

CAT# MS-11 \$3.00 per set 10 sets for \$28.50



9mm threaded bushing.

16-POSITION ROTARY B.C.D. SWITCH

Apem # PT65106L254. 6-pin mini-dip rotary switch. Binary coded hexadecimal switching code (see truth table in our Spec Sheets online) Screwdriver adjust. 10 x 10 x 7mm. Right-angle pc mount. Pins on 0.1" centers.



CAT# RS-162 \$3.50 each

KEYPADS

12 BUTTON KEYPAD

12 button matrix-encoded keypad. Tactile buttons. Black housing, 2.7" x 2" x 0.21". White buttons with black numerals. Contacts rated 30 mA @ 12 Vdc. Mounts from top. Four stabilizing pins on 1.7" X



1 2 3 1 4 5 6 J 7 8 9 20

EAR O HELP

2.4" centers. 7-pin header, 0.1" centers. CAT # KP-22 \$7.50 each 10 for \$7.00 each

16 BUTTON INDOOR / OUTDOOR KEYPAD

Fully-sealed, tactile snap-dome contacts. Contacts rated 30 mA @ 12 Vdc. 4 x 4 buttons (2.7" x 3" x 0.36"). Ten black keys numbered

1 to 0 (and A to J). Five blue keys with up-down arrows, CLEAR, HELP and ENTER. One red key labeled 2ND. TTL, MOS and DTL compatible. 9pin headers, 0.1" spacing. See spec sheet on our web site for more info.

CAT # KP-23 \$12.50 each 10 for \$11.50 each

12 BUTTON KEYPAD

12 key keypad with numerals 0 -9, * and #. One common terminal. Contacts rated 20 mA @ 24 Vdc. 2.01" x 2.24". Black with white buttons. Mounting holes on 1.8" x 2.24" centers. Can be rear-mounted through a 2.25" X 1.81" cutout.



CAT# KP-12 \$4.95 each

DOORBELL SWITCHES

LIGHTED DOORBELL BUTTON. WHITE

NuTone / Masterpiece # RCPB723 New Surface mount lighted pushbutton for use with 10-16 Vac door chimes. S.P.S.T., normally-open. Light can be disabled if not needed or if used with battery operated chimes. White enamel, metal base. 3.5" x 1.2" x 1.0" high. Includes mounting screws. CAT# PB-187 \$1.25 each

LIGHTED DOORBELL BUTTON. BRASS

NuTone / Masterpiece # RCPB744 Surface mount lighted pushbutton for use with 10-16 Vac door chimes. S.P.S.T., normally-open. Light can be disabled if not needed or if used with battery operated chimes. Brass or brass-plated metal body. 6.0" x 1.1" x 0.9" high. Includes mounting screws. \$1.50 each **CAT# PB-188**

SURFACE-MOUNT DOORBELL BUTTON

Broan- NuTone #RC818



Surface mount, non-lighted S.P.S.T. normally-open pushbutton for doorbells and chimes. 2.85" x 0.85" x 0.65" high white plastic base. Includes mounting screws. CAT# PB-186 \$1.00 each



NICKEL-PLATED PIN SWITCH WITH POLYCARBONATE PLUNGER

1-5/16" panel mount with cut to length polycarbonate pin switch. Pin dimensions: 8 mm diameter x 29.5 mm H. Shaft dia.: 10 mm. Accepts 1/4" female disconnect.

CAT# PSW-18 \$1.75 each Standard 1.93" long pin switch



for auto security and lights. CAT# PSW-2 \$1.00 each • 10 for \$9.00

ADJUSTABLE HOOD / DOOR PIN SWITCH

2-3/4" polycarbonate pin switch. Pin dimensions: 8.6 mm dia. x 19.5 mm H. Shaft diameter: 7.94 mm (5/16"). Accepts 1/4" female disconnect.

CAT# PSW-17 \$1.75 each



WITH SNAP-ACTION SWITCHES

Rugged, precision-engineered 8-way joystick. Smooth, spring return-to-center stick controls four S.P.D.T. snap-action micro switches. Metal center shaft with heavy-duty black plastic stick and mounting plate. 3" x 3.5" mounting plate. Stick stands 3.75" above mounting plate. Switch mechanism extends 2" below plate.

CAT# JS-5 \$15.00 each

THUMB JOYSTICK WITH SELECT BUTTON



2-Axis, self-centering Joystick. Two independent 10K Ohm pots, one per axis. Also has a select button actuated when the joystick is pressed down. 27mm diameter footprint. 31mm max height. CAT# JS-932 \$3.95 each • 10 for \$3.56 each

2 AXIS THUMB JOYSTICK

Parallax# 27800. Self-centering 2-Axis Joystick. Two independent 10K ohm potentiometers, one per axis. The modular form-factor allows you to plug the 2-Axis Joystick directly into a breadboard for easy prototyping. Dimensions: 1.64 x 1.2 x 1.1 in (41.67 x 30.54 x 27.7 mm)

CAT# PX-27800 \$6.99 each

5-POSITION THUMB CONTROL SWITCH

Parallax # 27801. Mini thumb



control switch. Returns to center, un-pressed position when released. By monitoring the input state of five pins, corresponding to five normally open switches, it's easy for any microcontroller to detect whether the switch is in the up, down, left, right or pressed position. It's possible for more than one position to make contact at a time ie., pressed + right + down, or left + down, for a total of 18 input states. 0.70 x 0.95 x 0.78 in (17.8 x 24.1 x 19.8 mm). 10 k ohm pullup resistor included on each positional pin



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DC FANS

5 VDC 25 MM

Delta Electronics # AFB02505HHB. 5Vdc, 0.23A. 25 x 25 x 15mm. DC brushless ball bearing fan. 13,000RPM. 29.5dBA. 4.06 CFM. Two 50mm leads with 2-conductor female connector. 0.1" centers. UL, CSA, CE, VDE.



CAT# CF-404 \$3.35 each

MICRONEL 62 MM FANS

62 x 62 x 14mm. Fans are unused, but have been in storage and show some signs of age ie., oil on label, no label. Guaranteed functional. Great price.



5 Vdc with 12" leads CAT# CF-416

\$1.50 each 5 for \$1.25 each

5 Vdc with solder or fan-plug terminals CAT# CF-417 \$1.25 each • 5 for \$1.00 each

9 Vdc with solder or fan-plug terminals CAT# CF-361 \$1.25 each • 5 for \$1.00 each

12 VDC 40 MM

Sunon MagLev # KDE1204PFV2 12Vdc, 1.0W. 40 x 40 x 10mm. 7.0 CFM. 27 dBA. Two 2.3" leads w/ 2-pin socket connector. cULus. CAT# CF-392 \$3.25 each



Nidec Wide Body TA150DC #C34957 12 vdc 0.29 amp, 40 x 40 x 28mm. Ball bearing. 15 CFM, 10,600 RPM, 39.2 dBA. Three 12" leads. UL, CSA CAT# CF-398 \$3.50 each

Delta Fonsan # DFB0412H 40 x 40 x 20mm. 12Vdc 0.10A. 5" leads with 2-pin socket connector (0.1" ctrs). New fan prepped with double-sided sticky tape on one edge. UL, CSA, CE. CAT# CF-414 \$3.25 each

12 VDC 60 MM

Adda # AD0612LB-A70GL. 12Vdc brushless, ball bearing, low-noise fan. 12Vdc, 0.08A. 60 x 60 x 25mm, 2500 RPM. 13.2 CFM. 16.1 dB/A. Two 10" pigtail leads. UL, CSA, CE. CAT# CF-380 \$2.50 each

DC Tiny 25 III # TUDC12Z4F-022. 12 Vdc 0.14A 1.8W. 60 x 60 x 25mm. 19 CFM. 4300 RPM. 32 dBA. Two 5" leads prepped with heatshrink tubing and 2-pin female (0.1") connector. UL, CSA, TUV.

CAT# CF-408 \$2.75 each

Delta Fonsan Model DFD0612L 12Vdc 0.09A. 60 x 60 x 20mm. Two 5" leads with 2-cond. Female connector (0.1" centers). UL, CSA.

CAT# CF-413 \$2.75 each



Mitsubishi # MMF 06D12DL 12 Vdc @ 0.07 Amps. 60mm x 60mm x 25mm brushless seven blade fan. UL. CSA. CAT# CF-427 \$2.75 each



Delta# AFB0612LB. 12 Vdc, 0.10A DC brushless ball bearing cooling fan. 60 x 60 x 15mm. 3,000 RPM, 11.55 CFM, 24.0 dB-A. Three 6" leads with 3-conductor female connector

(0.10" centers). UL, CSA, CE, VDE CAT# CF-411 \$2.50 each





Used fan in good condition. Fonsan DFB0812L (or equiv.). 12Vdc 0.08A cooling fan. 80 x 80 x 25mm. Metal fan guard attached with nylon rivets. Two 3.5" leads with 2-contact female connector. UL, CSA. CAT# CF-396 \$2.50 each



12 VDC 92 MM

AVC Model C9025S12H 12Vdc. 0.3A. 92 x 92 x 25mm. Sleeve bearings. Three 5.5" leads with 3-conductor female socket connector (0.1" ctrs). 52 CFM, 23 dBA. UL, CSA, CE, TUV. CAT# CF-407 \$3.50 each



12 VDC 120 MM

Delta #WFB1212H 120 x 120 x 26mm. 12 Vdc 0.45A DC brushless cooling fan. Three 12" leads. 2470 RPM, 86.52 CFM, 37.6 dBA. UL, CSA, CE, VDE. CAT# CF-406 \$4.00 each



12 VDC MESSAGE FAN

80 x 80 x 25mm 12Vdc, 0.09Amps. 22.44 CFM. 22 dBA. 1700 RPM. These cooling fans display your message in red and blue LEDs that create the illusion of letters and words over the rotating



blades. Also displays the temperature. Clear plastic frame and impellers. Includes a software CD and a USB cable to program your message using any computer running a Windows ® operating system. Message can be up to 16 characters per layer - up to 8 layers. Three 8" leads with 3-pin connector and adapter to 4-pin connector. cULus, TUV, CE, RoHS CAT# CF-418 \$7.75 each

18 VDC 60 MM

Matsushita Panaflo # FBM06F18H. 18Vdc, 0.13 Amp. 60 x 60 x 20 mm. 11-blade impeller. Two 1.4" leads with 2-conductor male connector. CAT# CF-279



\$2.25 ea. • 10 for \$2.00 ea. • 100 for \$1.35 ea.

ORDER TOLL FREE 1-800-826-5432

24 VDC 40 MM

Delta #FFB-424VHN. 24 Vdc, 0.15A. DC brushless fan. 40 x 40 x 28mm. 9500 RPM. 15.8 CFM. 45 dB-A. Three 3" leads. UL, CSA, CE. Removed from working equipment. CAT# CF-241U \$1.50 each

24 VDC 60 MM

Adda # AD0624HS-A70GL 24 Vdc, 0.15 Amp, 60mm x 60mm x 25mm. 23 CFM. Sleeve bearings. 7-blade impeller. Two 16" leads with 2-pin female connector (0.1" centers). UL, CSA, CE. CAT# CF-276 \$2.75 each



10 for \$2.50 each • 100 for \$2.00 each

CENTRIFUGAL BLOWERS

12VDC 50MM BLOWER Delta #BFB0512VHD. 12Vdc. 0.28A blower. 50 x 20mm. ball bearing blower. 5300 RPM. 6.75 CFM. 38.5db-A. Two 13" leads terminated with a 2-pin socket connector (.01" spacing). UL, CSA, CE, VDÈ. CAT# CF-371 \$3.75 each



Nidec Gamma30. Model D10F-12B6S3. 97mm x 33mm centrifugal, ball bearing blower, 12Vdc, 0.30A, Three 25" leads with 3-contact female connector. CAT# CF-339 \$6.45 each

12 VDC 120 MM BLOWER

Mechatronics # B1232L12B. 12 Vdc, 0.360A ball bearing blower 120 x 120 x 32mm centrifugal blower. 25 CFM. 2100 RPM. 44dBa. Two 2" leads with custom connector. cULus. **CAT# CF-403**

\$6.75 each

AC FANS

115 VAC 80 MM

EZ Fan# FP-108A-S-3. 3.13" square X 1.5". 110/120 Vac, 50/60 Hz. 0.08/0.06 A. 6/5 W. 17 CFM. Zinc housing with seven blade thermoplastic impeller. Terminals accept standard fan plug or can be soldered.UL. CSA. CAT# CF-117 \$14.80 each

125VAC 172MM

Thermocool # G17050HASB 2900 RPM, 198 CFM cooling fan. 125Vac, 0.4A. Ball bearing fan. 172mm dia. x 51mm. Terminals for standard fan plug or solder. cULus, CE, TUV, RoHS.



115 VAC 120 MM

4.69" square x 1.5." Aluminum housing. Thermoplastic impeller. Terminals accept standard fan plug or can be soldered. UL, CSA, TUV, CE.



54 CFM, SLEEVE BEARINGS EZ Fan # FP-108-1-S3 2000 RPM, 54 CFM, 34 dBA, CAT# CF-120 \$14.80 each

54 CFM, BALL BEARINGS

EZ Fan # FP-108-1-S3B. 110/120 Vac, 0.11 Amps. 54 CFM. CAT# CF-275 \$18.95 each

85 CFM. SLEEVE BEARINGS

Thermocool #G12038MAS 2600 RPM. 60Hz, 0.22A. 44 dBA. CAT# CF-112 \$17.75 each

120 CFM. SLEEVE BEARINGS

EZ Fan # FP-108-U S1 3000 RPM. 120 CFM. 45 dBA. CAT# CF-281 \$15.00 each

120 CFM, BALL BEARINGS

EZ Fan # FP-108-U S1B or (SU-BBT) 3000 RPM. 120 CFM. 45 dBA. CAT# CF-282 \$19.00 each

230 VAC 120MM

Comair Rotron # GAA1238-230AB. 230 Vac 50/60 Hz. 10W. Ball bearing. 44 dBA. 3000 RPM. 120 square x 38mm. 111 CFM. Black aluminum



housing. Five blade thermoplastic impeller. Terminals accepts standard fan plug or can be soldered. cULus, TUV, CE, RoHS. CAT# CF-230 \$18.50 each 10 for \$17.75 each

METAL FAN GUARDS

FOR 60 MM SQUARE FANS Q CAT# CFG-60 \$1.00 each



FOR 80 MM SQUARE FANS CAT# CFG-80 \$1.25 each

FOR 118/120 MM SQUARE FANS CAT# CFG-120 \$1.60 each

12" FAN CORD

Fits all cooling fans equipped with solder / plug terminals. Bare leads. CAT# CFC-12 \$1.00 each

> MANUFACTURERS We Purchase Excess Inventories. CALL, WRITE, E-MAIL or FAX your list.

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CAT# CF-415

BUZZERS, BEEPERS, AUDIO ALARMS

PIEZO AUDIO ALERTS

High pitched piezo alarm signals with built-in oscillator circuitry. Low power consumption. Used in alarms, smoke-detectors, electronic games, cameras and telephones.

12 VDC AUDIO ALERT

Medium-loud, high-pitched audio alert signal. Operates on 12Vdc (6-14Vdc). Plastic assembly, 0.84" dia. x 0.51" h. PC pins on 0.6" centers.

CAT# SBZ-201 \$1.25 ea. • 100 for 80¢ ea.

3-28 VDC PIEZO BEEPER

Operates on 3-28 Vdc. Continuous tone. 103 db sound pressure. 1.14" dia. x 0.93" ABS plastic housing. Can be bulkhead mounted with tabs on 1.31" mounting



centers, or can be mounted through a panel hole of 0.7" diameter via threaded bushing and panel nut. 5" wire leads. Black housing CAT# SBZ-100 \$3.75 each

12VDC PIEZO BEEPER

High-pitched piezo beeper. 12Vdc (3-20Vdc) operation. Freq: 85 Hz. 10 dBA / 10 cm. 23mm dia. x 10mm. PC pins on 15mm centers. **CAT# SBZ-26** \$1.50 each



1-12 VDC PIEZO BEEPER

Medium-loud, 4KHz continuous tone. 85dB / 5Vdc / 10cm. Operates on 1-12Vdc. Max current 20mA @12Vdc. 15.5mm dia. x 14mm high plastic case. PC leads on 7.62mm centers. **CAT# SBZ-40** \$1.50 each 10 for \$1.40 each • 100 for \$1.20 each

3-18 VDC PIEZO BUZZER

FY14-G. 3-18Vdc mini-piezo beeper. Emits a medium-loud, high-pitched tone when energized. 80 dB. 12Vdc, 7mA, 4Khz. 13.8mm dia. x 7.5mm high. PC pins on 7.5mm centers. CAT# SBZ-204 \$1.45 each 10 for \$1.35 each • 100 for \$1.15 each

PC MOUNT BEEPERS

3 VDC BEEPER, SURFACE MOUNT

PUI Audio # SMI-1324-TW-3V-R. 3 Vdc electro-mechanical beeper. Operates 2-5Vdc, 30mA. 75dBA @ 10CM. 2,400 Hz continuous tone. 0.5" x 0.5" x 0.25". Flat, surface-mount tabs on 0.5" centers. Tabs can be straightened and soldered if desired.

CAT# SBZ-1324 \$1.20 each

4-7 VDC BEEPER

Chinasound # CEB12A-05BP. 5Vdc, 30mA, 2.3KHz, 85dB electromagnetic buzzer. 12mm diameter x 10mm high. PC leads, bent 90 degrees. 4 - 7Vdc operating range. CAT# SBZ-493 \$1.40 each 10 for \$1.25 each • 100 for \$1.00 each TDK # SDC161425-01. 5 Vdc (operates on 4-8Vdc) electromagnetic beeper. 16mm diameter x 14mm high. 1900Hz. 85dBA/10cm min. Average current, 30mA. PC pin terminals on 5mm centers. **CAT# SBZ-582** \$1.45 each



1 1/2-3 VOLT METAL BUZZER

2" diameter metal buzzer. Loud, annoying screech, especially at 3Vdc. CAT# BZ-15 \$1.25 each

12V VEHICLE TRUMPET HORN

Roots Windtone W75, High Note Horn. New 12V (16V) trumpet horn with mounting brackets. 87 x 80 x 74mm. CAT# BZ-75 \$8.50 each



PIEZO SIRENS

LOUD MINI SIREN, 12 VDC

Model# AS-9903.

Extremely loud 12 Vdc car alarm siren. Distinctive siren pattern cycles through six different sounds every thirty seconds. 120dbl. Overall dimensions: 3.25" x 2.90" x 3.50" high.

Two 11" wire leads. 2.85" mounting centers on adjustable metal base. CAT# ES-903 \$14.50 each

XL MINI PIEZO SIREN

Small, painfully-loud two-tone piezo siren for auto or home security devices. Operates 6-12 vdc, 110 ma. 108dB output (30cm). 1.81" x 1.55" x 0.88" high black plastic body. Two mounting holes on diagonal 1.80" centers. 3" wire leads.

CAT# ES-10 \$4.50 each • 10 for \$4.00 each

21MM PIEZO ELEMENT

ENCASED PIEZO ELEMENTS

Plastic encased piezo elements are more resonant and louder than non encased piezo elements. They require external signal to produce sound.

0.89" DIAMETER X 0.13" Matsushita #WM-71A111M

1" wire leads. **CAT# PE-54** 75¢ each • 100 for 50¢ each



Murata #PKM22EPP-40. PC pins on 10mm centers. 4KHz resonant frequency. Piezo element inside case is 20mm diameter. **CAT# PE-57** 75¢ each



0.86" DIA. X 0.1"

Plastic housing with a ring of self-adhesive neo-



prene padding on the front face. 1.25" long leads. 0.79" dia. piezo element can be removed from case. CAT# PE-49 75¢ each

10 for 65¢ each • 100 for 50¢ each

ORDER TOLL FREE 1-800-826-5432

MINI TONE TRANSDUCERS

Used in paging, warning signals, metal detectors and alarm clocks. Miniature magnetic transducers require external signal source to produce sound.

RDI # DMT-1206. 48 Ohm audio tone transducer. 0.47" diameter x 0.34" high. PC pins on 0.25" centers. CAT# PE-52 2 for \$1.00 • 100 for 40¢ each



16 Ohm mini-tone transducer Intervox #BRT1209L-03 12mm diameter x 8.5mm high. 3.6Vdc (1.5 - 5Vdc), 70mA max current. 90 db @ 10 cm. 2048Hz. Two 3.5" leads. CAT# PE-58 2 for \$1.00 100 for 40¢ each • 1000 for 25¢ each

AVX/Kyocera # PCRT21BGX Black plastic front.vented metal back. Solder loop terminals. 0.82" dia. x 0.15" CAT # PE-38 3 for \$1.00 100 for \$25.00 • 1000 for \$125.00

MULTIMEDIA / VOIP HEADSET

Stereo headphones with boom microphone. Ideal for internet Voip telephony and other computer A/V applications. Dual 3.5mm stereo phone plugs. Volume control. CAT# HP-103 \$7.50 ea.



HEADPHONES

LIGHTWEIGHT STEREO **HEADPHONES**

Lightweight stereo headphones for audio and computer applications. Adjustable headband. 3.5mm phone plug with 4' shielded cord. CAT# HP-100 \$3.35 ea. • 100 for \$2.50 ea.

LIGHTWEIGHT STEREO EARPHONES

Lightweight stereo headphones for audio and computer applications. Adjustable headband. 3.5mm phone plug with 4' shielded cord. CAT# HP-97 \$1.75 each 100 for \$1.25 each

FOLDING STEREO HEADPHONES

Maxview # H85010. Padded overear headphones for added listening isolation. Double-jointed ear cup brackets allow headphones to fold into 5" x 5" package. Includes draw-string pouch and 1/4" to 3.5mm stereo phone plug adapter. CAT# HP-851 \$8.95 each



MONAURAL EARPIECE W/ 20' CORD

Recoton® #EP3. Old-style, mono in-ear earphone for private radio or TV listening. 3.5mm mini-plug. CAT# EP-15 \$2.00 each **JAMMERZ - DIGITAL** STEREO EARBUDS. COBY JAMMERZ CVE52 CD. MP3. iPOD



sweet sound with powerful bass response. Impedance: 16 ohms. Frequency range: 20-20,000 Hz. Sensitivity: 102 dB / mW. Rated / Max Input Power: 5mW / 10mW. Weight 14.8 g. 3.5mm gold plated plug. CAT# HP-52 \$6.95 each

MAXELL "COOL BEAN" STEREO EARBUDS

Compatible with most smart phones, mp3 players and mini-audio devices. Standard 3.5mm phone plug. Three different sized ear plugs and cord management device included. CAT# HP-55 \$3.50 each



ELECTRIC MICROPHON

The electret microphones listed below require a low current voltage of 1.5 - 10 Vdc to operate. They will not function in applications that are not specifically wired for electret microphones.

ELECTRET MIC ELEMENTS

Hosiden # KUB2823. Tiny, omnidirectional microphone. 6mm dia. x 2.7mm height. 2.2K Ohm impedance. Operates on 2.2 Vdc, 0.5 mA. Sensitivity, -45 dB. PC pins on 0.05" centers. CAT# MIKE-79 2 for \$1.00

10 for 40¢ each • 100 for 30¢ each

ELECTRET MICROPHONE 10mm diameter x 7mm. Two 10mm

leads on 2.5mm centers. CAT# MIC-60 2 for \$1.00 • 10 for 40¢ each

ELECTRET MICROPHONE

1.70" x 0.92" x 0.50" rounded rectangular ABS case. 2-conductor cable (1-conductor with shield). \$1.00 each 9' cable. CAT# MIKE-95



ELECTRET MICROPHONE WITH PUSH-TO-TALK BUTTON

Designed for use with a Bluetooth "hands-free" kit, microphone and pushbutton are housed in a 1.53" x

1.90" x 0.71" rounded case. Microphone connected to a 12ft, 2-conductor shielded cable, and membrane push-button connected to a 10ft 4-conductor cable. CAT# MIC-64 \$1.00 each



ELECTRET MICROPHONE W/ METAL BRACKET

Electret condenser microphone in an oval, 43 x 23 x 17mm high black plastic enclosure attached to a 78mm long x 16mm wide metal bracket. Bracket extends 45mm past microphone. Bracket swivels. Probably

designed to slide under auto sun visor. 290mm cable with two-conductor female connector. CAT# MIC-7 \$1.00 each

FAX YOUR ORDER 24 HOURS A DAY (818) 781-2653

DYNAMIC MICROPHONE

Priddis Dynamic Microphone # DM-312. Multi-purpose PA, Karaoke dynamic microphone. Moving-coil element. Uni-directional cardioid pattern. On-off switch, 11' Low Noise cable with 1/4" plug. CAT# MIC-8 \$9.50 each



DUAL PORT USB CAR CHARGER, 2.1 AMP

Creates two USB charging ports in vehicle, 2.1 Amp capacity. For phones, iPads®, Kindle and other portable devices. With CB-803, below, charges or powers most USB devices. CAT# MT-802 \$7.50 each

3-IN-ONE SYNC/CHARGE USB CABLE

No more mess! All-in-one retractable cable for syncing and charging most portable phones and tablets. Connects to any car or home charger with a USB port. Ingenious 3-in-one plug for mini-USB, micro-USB and Apple products. Fits Apple® Blackberry®, Motorola®, Samsung®, LG®, Nokia®, HTC®, Palm®, Sony®, Sanyo®, Kyocera®, the Amazon® Kindle[™] and more.

CAT# CB-803 \$6.00 each

12V 1000MA CHARGER W/ CIG LIGHTER SOCKET

Compact, portable 120 Vac power supply allows cell phones, PDAs, MP3 players and other portable

electronics with a car charger to be used anywhere AC power is available. Perfect for home, office or travel. 12 Vdc 1000 mA.

CAT# PS-1201 \$6.95 each

MICRO-USB CAR CHARGER

For devices with micro USB connector. Internal Intelligent IC prevents overcharging. **CAT# MT-20** \$8.95 each

MICRO-USB

Smart IC protects battery from overcharging. Compatible with Ni-Mh and Li-ion batteries. 6' cord. For Motorola Q9h, Q9m. RAZR2 V8, RAZR2 V9, RAZR2 V9m, among others. CAT# PS-6 \$4.00 each

CIGARETTE LIGHTER CORDS CIGARETTE

LIGHTER "Y" 1 plug to 2 sockets. 6" cord. CAT# CLP-Y \$3.65 each 10 for \$ 3.40 each

6.5' CIGARETTE LIGHTER POWER CORD. 2.1MM COAX PLUG

6.5ft cord with 2.1mm i.d. coax power plug. SPT-2, 18AWG zip cord. Cigarette lighter plug with 5A fuse. **CAT# CLP-102** \$3.50 each



CIGARETTE LIGHTER PLUG

Rubber strain relief. CAT# CLP-101 85¢ each

12' CIGARETTE LIGHTER POWER CORD

12' 2-conductor AWG 20 zip cord. CAT# CLP-99 \$ 3.00 each





RED LASER DIODE MODULE

4mW red. 650nm laser diode module. Designed for installation into an OEM product,



they are functioning units with a bare, exposed PC board, 6" leads terminated with a 2-contact female connector, 0.1" spacing. The brass body is 10.5 x 15mm. Overall length with PCB is 22mm. Operating voltage is 3VDC @ 25mA. Polymer aspheric lens. 5mm aperture. <2mrad divergence.

CAT# DLM-3 \$7.50 ea. • 10 for \$ 7.00 ea.

5MW 650NM RED LASER DIODE

LiteOn #LTLD505T. 650nM red laser diode. 2.4-2.6V operation. 3mm dia. case with lens. 6mm diameter gold-plated heatsink base. Gold-plated leads.

CAT# DLM-6 \$3.45 each

GREEN LASER POINTER

laser pointer at

532 nm wavelength. Output power of <5mW (Class Illa Laser Product). Range of approximately 9,000 ft (2600 m) in darkness. 1.1 mm beam dia. at source. Requires 2 "AAA" batteries (included). Can be used for sky-pointing, projection on low clouds, signaling. 6" x 0.5" diameter.

CAT# LP-40G \$37.95 each



Very sturdy, heavy-duty plastic mounting pedestal. Adjusts to a variety of positions. 5" high, fully-extended. 1.8" x 1.68" mounting plate is on a ball swivel providing more position options. Original application is unknown but, with a little drilling or grinding, mounting plate might easily be adapted to communications, audio, video or other equipment. 2.8" diameter suction cup base adheres to any smooth, non-porous surface. A lever actuates or releases suction for secure mounting and quick release. CAT# AJR-2 \$3.95 each

30 DAY MONEY-BACK GUARANTEE







FASTENERS

INSULATED CRIMP TERMINALS 1/4" QUICK DISCONNECT MALE										
1/	4 QU			WIRE SIZE	COLOR	50 PC	s	100 PCS	500 PCS	1.000 PCS
100	0.0	21	25	22-18	RED	3.00	0	5.50	22.00	38.00
			225 325	16-14 12-10	BLUE YELLOW	3.00		5.50 6.10	22.00 28.50	38.00 55.00
						3.60	0	0.10	20.00	55.00
1/	4 QU			ECT FEMA WIRE SIZE	COLOR	50 PC		100 PCS	500 PCS	1,000 PCS
		11	25	22-18	RED	3.00	0	5.50	22.00	38.00
and the			225	16-14	BLUE	3.00		5.50	22.00	38.00
			325	12-10	YELLOW	4.00	0	7.20	30.50	57.50
1/	4" FU		ISULATE	D MALE			_	100 PCS		1.000 PCS
1			25	22-18	RED	50 PC 5.40	-	9.00	500 PCS 38.50	1,000 PCS 66.00
		42	225	16-14	BLUE	5.40	0	9.00	38.50	66.00
1/	4" FU	LLY IN	ISULATE	D FEMALE						
		CA 61	1# 25	wire size 22-18	RED	50 PC 5.40		100 PCS 9.00	500 PCS 38.50	1,000 PCS 66.00
e.			225	16-14	BLUE	5.40		9.00	38.50	66.00
1	4" PI	GGY-B	АСК							
	25	CA	Τ#	WIRE SIZE	COLOR	50 PC		100 PCS	500 PCS	1,000 PCS
	2.00		125 225	22-18 16-14	RED BLUE	5.40 5.40		9.00 9.00	38.50 38.50	66.00 66.00
2	/16" 0					0.4	0	5.00	00.00	00.00
5/		CA			COLOR	50 PC	cs	100 PCS	500 PCS	1,000 PCS
			50	22-18	RED	3.00		5.50	22.00	38.00
			250	16-14	BLUE	3.00	0	5.50	22.00	38.00
3/	16" Q			WIRE SIZE	001.00	50 PC		100 PCS	500 PCS	4 000 800
			50	22-18	RED	3.00		5.50	22.00	1,000 PCS 38.00
		22	250	16-14	BLUE	3.00	0	5.50	22.00	38.00
В	UTT C		CTORS							
_		CA 51	T# 00	wire size 22-18	RED	50 PC 3.00		100 PCS 5.50	500 PCS 22.00	1,000 PCS 38.00
			200	16-14	BLUE	3.00		5.50	22.00	38.00
_			300	12-10	YELLOW	4.00	0	7.20	30.50	57.50
E	ND C/		r#	WIRE SIZE	COLOR	50 PC	e	100 PCS	500 PCS	1,000 PCS
			00	22-18	NATURAL	3.00		5.50	22.00	38.00
		-	200	22-14	NATURAL	3.00		5.50	22.00	38.00
_				22-10		3.5		6.00	28.35	54.50
F	ULLI			ALE BULLI WIRE SIZE		50 PC		100 PCS	500 PCS	1,000 PCS
6		54	100	22-18	RED	3.00	0	5.50	22.00	38.00
Vanit		55	500	16-14	BLUE	3.00	0	5.50	22.00	38.00
F	ULLY	INSUL	ATED FE			NNECT	ORS			
		CAT		WIRE SIZE	COLOR	50 P		100 PCS	500 PCS	1,000 PCS
0	-		00	22-18	RED	4.0		7.20	30.50	57.50
_		57	00	16-14	BLUE	4.0	0	7.20	30.50	57.50
SF		TERM								
•.		CAT#	WIRE SIZE	COLOR	STUD SIZE	50 P		100 PCS	500 PCS	1,000 PCS
	r	9106	22-18	RED	6	3.0		5.50	22.00	38.00
		9108 9110	22-18 22-18	RED RED	8 10	3.0 3.0		5.50 5.50	22.00 22.00	38.00 38.00
		9206	16-14	BLUE	6	3.0		5.50	22.00	38.00
		9208	16-14	BLUE	8	3.0		5.50	22.00	38.00
		9210	16-14	BLUE	10	3.0		5.50	22.00	38.00
		9308 9310	12-10 12-10	YELLOW YELLOW	8 10	4.0 4.0		7.20 7.20	30.50 30.50	57.50 57.50
ы									00.00	01.00
RI	CAT#	WIRE SIZE	COLOR	STUD SIZE 50 PCS	100 PCS	500 PCS	1,000 PCS		CRIMP	τοοι
~	8106	22-18	RED	6 3.00	5.50	22.00	38.00		GRIMP	IUUL
Q	8108 8110	22-18 22-18	RED RED	8 3.00 10 3.00	5.50 5.50	22.00 22.00	38.00 38.00			
N 13	8206	16-14	BLUE	6 3.00	5.50	22.00	38.00			
	8208	16-14	BLUE	8 3.00	5.50	22.00	38.00	0 0	and a set	
100	8210 82516	16-14 16-14	BLUE BLUE	10 3.00 5/16 4.25	5.50 7.50	22.00 31.00	38.00 59.00	PARE		
	8308	12-10	YELLOW	8 5.40	9.00	38.50	66.00			
	8310	12-10	YELLOW	10 5.40	9.00	38.50	66.00			
		12-10	YELLOW	5/16 6.25	11.00	52.00	90.00	For ins	ulated and u	ininsulated
	52263	ö-U/4	RED	10 10/\$3	.00	25.00	150.00	solderl	ess terminal	s, butt conne
						d Landson		1 4		Also crimps

RED INSULATED HOOK TERMINAL, #10 STUD Red insulated crimp terminal for 22-18AWG wire. CAT# 6100 50 for \$2.50 100 for 4.5¢ each 500 for 4¢ each 1000 for \$0.032 each

onnectors and end caps. Also crimps D-sub and other connector pins. CAT# CT-1 \$8.75 each

Sec.

FAST FRIENDLY SERVICE

	CABI	LE TIES					T					
CAT#	LENGTH	MIN. TENSI STRENGT		RM		X. BNDL DIA.	1	0	100	10	00	
TR-400	4"	18 lbs	neuti	ral 1	15/	/16"	.30)	\$2.50	\$	15.00	
TR-400B	4"	18 lbs	black			/16"	.35		\$3.00		17.50	
TR-600	6"	30 lbs	neuti	ral 1	11	/2"	.50)	\$4.00	\$	30.00	
TR-600B	6"	30 lbs	black			/2"	.50		\$4.00		30.00	
TR-800	8"	50 lbs	neuti			/4"	.60		\$5.00		40.00	
TR-800B TR-1100	8" 11"	50 lbs 50 lbs	black neuti		13 3"	/4"	.7(\$6.00 \$6.00		50.00 50.00	
TR-1100B	11"	50 lbs	black		3"		.80		\$7.00		60.00	
TR-1500	15"	50 lbs	neuti		1"			.00	\$8.00		70.00	
TR-1500B	15"	50 lbs	black	x 4	1"		\$1	.00	\$8.00	\$	70.00	
ADHE	SIVE-BAC	KED TIE	MOUN	TS					unts are us ps to a flat			ie
3/4" square	10 - 40 lb		Г# ТМ-1			\$1.20	100 fc	or \$9.50	. 1000	for \$85	5.00	P
1" square	18 - 50 lb		Г# ТМ-2			\$1.40	100 fc	or \$10.0	0 1000	for \$95	.00	
617E						5	100		500	100		
SIZE Fits 18-28 g			CAT# VN-1		50 52.	.00	100 \$3.50	C	500 \$15.00		0 5.00	
Fits 18-24 g			VN-2			.00	\$5.50		\$25.00		5.00	
Fits 16-22 g			VN-3			.75	\$7.00		\$32.50		0.00	
Fits 18-12 g	ja. wire	Yellow V	VN-4	\$	53.	75	\$7.00	0	\$32.50	\$60	0.00	
CAT# WIRE SIZ		UICK SPL 0 PCS 100 PCS		1,000 PC					ACERS, EADED			
7100 22-18	RED 5	5.50 10.00	47.00	75.00)	<u>Length</u>	-	Hole	CAT #	10	100	1000
			47.00	75.00)	0.25"	0.25"	#8	SP-42	0.80	5.00	35.00
	SPLIT-LO	OM TUBI	NG			0.50" 0.6"	0.25"	#8	SP-58 SPC-5	0.90	5.50	40.00 20.00
Dress up au	uto and home	e installations	S			0.62"	0.13" 0.25"	18awg #8	SP-66	0.40 0.95	3.00 5.75	42.50
with split-loor	n tubing.	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA										1
Allows exit of of wires at ar	r entry	ele ele contribute de la c	di kalada		1				RPACK			
			T 100	ET		IN-I		CONN	ECTOR	KITS		New
DIA. COLO 1/4" blacl		PER F 4 12¢	<u>T 100</u> \$9.						-			· •
3/8" blacl		,		0.00								
1/2" blacl		,		2.00		00				25		N.C.
5/8" black		'		3.00			alers and	51	5	-06	62	JE
3/4" blacl		'		3.00				7 52		6		
		er 10' of one					3					
		CONNECT							onnectors a ctions desig			
		imply put wir							eratures a			
•		ers or crimpi e and improv	0			nals are tin plated and have special core wings which allow crimp-only connections, eliminating the need for						
2-WIRE		-							ctions, elim nd cavity s			
	C 10 for \$	LICE - YELLC							ating silicor			
	50 • 100 fo			-)				cavities. Pir			
		μφτι.00	0	~					② 20A. Desindustrial u		for auto	omo-
3 -WIRE												
	ED CAT #		1						each male t with pins.			
10 for \$2.50 • 50 for \$10.00 • 100 for \$14.00						o-contac		seals,	piugs, l	11561-		
TAP CONNECTOR				CAT#		<u> </u>	65.00 ead	ch				
Allows user to tap directly into an					1104 04	C KIT in	dudee #	ne following	1 malo	and for	nale	
	e without cut		A STOL	1					ct, 8 2-cont			
	C 10 for \$		- man			contact,	, 3 5-co	ntact, 4 6	6-contact w			
50 for \$10.00 • 100 for \$14.00							nd storag					
IN-LINE	IN-LINE SPLICE CAT# CKT-1104 \$140.00 each											
CAT # BS			1			CDIM				ruee		k
	-	3.50 • 100	for \$6 P	50					R WEA	INER	PAU	
						CON						
HUC		P "WRAP	LEK2					ned crim eel paral		2		New
Black hook	& loop straps	s for				jaws eli				A		71

Black hook & loop straps for bundling and fastening of cables, tools, fishing poles, sporting goods. 12.5" x 0.5" **CAT# WR-1** \$1.00 each • 10 for 85¢ each

CAT# CT-18 \$27.95 each ORDER TOLL FREE 1-800-826-5432

jaws eliminate faulty

crimps on a wide range of gauge

with our Weatherpack kits.

wire terminations. These tools work well

27

HEAT SHRINKABLE TUBING & ACCESSORIES

4' LENGTH OF HEATSHRINK TUBING

Polyolefin heat shrinkable tubing shrinks to 50% of its original diameter when heated. It forms a tight mechanical bond even over irregularly shaped materials. Size listed is expanded (pre-shrunk) diameter.

Dia.	Color	CAT#	Per 4'
3/64"	BLACK	HUG-364B	\$1.15
	RED	HUG-364R	\$1.15
	WHITE	HUG-364W	\$1.15
	CLEAR	HUG-364C	\$1.15
1/16"	BLACK	HUG-116B	\$1.20
	RED	HUG-116R	\$1.20
	WHITE	HUG-116W	\$1.20
	CLEAR	HUG-116C	\$1.20
3/32"	BLACK	HUG-332B	\$1.25
	RED	HUG-332R	\$1.25
	WHITE	HUG-332W	\$1.25
	CLEAR	HUG-332C	\$1.25
1/8"	BLACK	HUG-18B	\$1.35
	RED	HUG-18R	\$1.35
	WHITE	HUG-18W	\$1.35
	CLEAR	HUG-18C	\$1.35
3/16"	BLACK	HUG-316B	\$1.60
	RED	HUG-316R	\$1.60
	WHITE	HUG-316W	\$1.60
	CLEAR	HUG-316C	\$1.60
1/4"	BLACK	HUG-14B	\$1.90
	RED	HUG-14R	\$1.90
	WHITE	HUG-14W	\$1.90
	CLEAR	HUG-14C	\$1.90
3/8"	BLACK	HUG-38B	\$2.15
	RED	HUG-38R	\$2.15
	WHITE	HUG-38W	\$2.15
	CLEAR	HUG-38C	\$2.15
1/2"	BLACK	HUG-12B	\$2.40
	RED	HUG-12R	\$2.40
	WHITE	HUG-12W	\$2.40
	CLEAR	HUG-12C	\$2.40
3/4"	BLACK	HUG-34B	\$3.15
	CLEAR	HUG-34C	\$3.15
1"	BLACK	HUG-1B	\$4.50
	CLEAR	HUG-1C	\$4.50

100' ROLL OF HEATSHRINK TUBING

Dia	CAT#	100' roll
1/16"	HSS-116(X)	\$12.00
3/32"	HSS-332(X)	\$13.00
1/8"	HSS-18(X)	\$15.00
3/16"	HSS-316(X)	\$19.00
1/4"	HSS-14(X)	\$22.00
3/8"	HSS-38(X)	\$25.00
1/2"	HSS-12(X)	\$30.00

X=color. Available colors are Black (B), White (W), Red (R), & Clear (C)

i.e. 1/16" red = CAT# HSS-116R

STEINEL HEAT GUN

UltraHEAT™ #SV800 Dual temperature heat gun provides flameless heat for applying heat shrink tubing, curing epoxy, loosening adhesives, heating liquids, thawing frozen pipes, stripping paint and many other applications. Dual temperature, 600 deg. F and 800 deg F. 1300 Watts. Impact resistant housing. Long-lasting heating element. UL listed.

E-MAIL US

CAT# HG-800 \$46.75 each

HEATSHRINK TUBING 154 PIECE ASSORTMENT

Have the right piece of heat shrinkable tubing when you need it. Unbreakable clear plastic box with dividers contains 4 inch lengths of 6 different diameters: 1/16" - 56 pcs, 3/32" - 35 pcs, 1/8" - 28 pcs,





3/16" - 18 pcs, 1/4" - 9 pcs, 3/8" - 8 pcs.

ASSORTED COLORS:

black, red, clear, yellow, green, blue, white **CAT# HS-4900** \$11.95 per kit

BLACK ONLY: CAT# HS-4901 \$11.95 per kit

DUAL WALL HEATSHRINK TUBING KIT

Dual-wall, adhesive-lined heatshrink tubing assortment. 4" black polyolefin with adhesive lining. Shrinks to



half its original diameter when heated, creating a moisture-resistant, tight, flexible protective seal. Unbreakable, clear plastic box with dividers. Contents:

	10 pcs		3 pcs
3/8"	6 pcs	1"	2 pcs
CAT	# HS-4903	\$15.	95 per kit

HEATSHRINK CABLE MARKING KIT

1/2" pieces of black heatshrink tubing, numbered 0 to 9 for cable marking applications. Each number is supplied in sizes 1/8", 3/16", 1/4", 3/8", and 1/2". Also includes

allcorp@allcorp.com



60 pieces of colored heatshrink tubing in assorted sizes. Sorted by number in an unbreakable clear plastic box.Includes: 300 pieces 1/2" long numbered markers, assorted diameters. 60 pieces 1/2" long color markers, assorted diameters.

CAT# HS-4902 \$11.95 per kit

18 GAUGE TEFLON TUBING (NOT SHRINKABLE)

PTFE 18 TW NATURAL. 18 Gauge, thin-wall Teflon tubing. Natural (white). TFE-TW-300. Type VW-1. Rated 200C Degrees. 300V rated. Nominal I.D. 0.042". Wall Thickness: 0.012". CSA. 5' minimum. **CAT# PTFE-18** 5' for 75¢ 100' for \$10.00 • 1000' for \$80.00

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WIRE - CABLE -CO-AX

SHIELDED MULTI-CONDUCTOR JACKETED CABLES **100% FOIL SHIELD WITH DRAIN**

For data communication, computer hook ups, audio and

instrumentation. Stranded color coded conductors. Gray vinyl jacket.

сат# 2CS22	cond. 2	gauge 22	о.d .170"	10' 2.40	₅₀ 11.50	100' 22.00	500' 95.00	1000' 175.00
3CS22	3	22	.180"	3.00	14.00	26.00	125.00	220.00
5CS22	5	22	.200"	3.70	17.50	33.00	130.00	255.00
10CS22	10	22	.264"	6.20	29.00	55.00	235.00	435.00

MAGNET WIRE

Solid copper wire with a very thin insulating layer. Used in applications such as winding electric motor coils, speakers and transformers. Also used in the construction of electromagnets and inductors.



1/4 LB ROLL

<u>AWG</u> PRICE	LENGTH	CAT#	<u>1/4 LB</u>
16	31'	MW-16-4	\$5.40
18	50'	MW-18-4	\$5.40
20	79'	MW-20-4	\$5.40
22	125'	MW-22-4	\$5.94
24	198'	MW-24-4	\$6.16
26	314'	MW-26-4	\$6.58
28	497'	MW-28-4	\$7.17
30	785'	MW-30-4	\$8.43
32	1217'	MW-32-4	\$8.76
1/2 LB R	OLL		
AWG	LENGTH	CAT#	<u>1/2 LB</u>
PRICE			
16	63'	MW-16-2	\$10.60
18	99'	MW-18-2	\$10.80
20	157'	MW-20-2	\$11.20
22	251'	MW-22-2	\$11.70
24	395'	MW-24-2	\$12.20
26	629'	MW-26-2	\$12.60
28	995'	MW-28-2	\$13.65
30	1569'	MW-30-2	\$14.77
32	2430'	MW-32-2	\$15.90

RED / BLACK AUTOMOTIVE GRADE ZIP CORD

Automotive grade

"GPT" zip cord with red and black conductors. 80 degree C, flame-retardant PVC insulation. Stranded conductors. Flexible insulation. 10 ft minimum order.

CAT#	AWG	<u>10'</u>	<u>50'</u>	<u>100'</u>	<u>500'</u>
WRB-24	24	.13	.12	.11	.10
WRB-22	22	.14	.13	.12	.11
WRB-20	20	.18	.17	.16	.15
WRB-18	18	.24	.22	.21	.20
WRB-16	16	.40	.37	.36	.32
WRB-14	14	.51	.47	.45	.41
WRB-12	12	.95	.90	.80	.73

PREPPED WIRES

12" SOLID COPPER WIRE LEAD

18ga. black insulation prepped with 0.25" female QC terminal on one end. 105°C 600V UL. CAT# PL-6 10 for \$1.00 • 100 for 7¢ each

5" LEAD, WITH 3/32" QC TERMINALS

22 gauge stranded wire. Black insulation. 3/32" female gc connectors on each end. CAT# PL-5 10 for 50¢ • 500 for 3¢ each

HOOK-UP WIRE

26-18 AWG stranded and solid hook-up wire, PVC insulation. Colors available: Black (BK). Red (RD), White (WT), Green (GN), Yellow (YL) and Blue (BL), Brown (BR), Orange (OR), Purple (PR), Gray (GY).



Available in 25' and 100' rolls.

CAT# X X X X - 25 or 100 S

/ / /1 AWG color length add S for solid

i.e.: for 24GA Black, 100' stranded CAT# 24BK-100

i.e.: for 24GA Red, 25' solid CAT# 24RD-25S

25 FOOT ROLLS. STRANDED

26 AWG	CAT# 26xx-25	\$2.20 per roll
24 AWG	CAT# 24xx-25	\$2.38 per roll
22 AWG	CAT# 22xx-25	\$2.64 per roll
20 AWG	CAT# 20xx-25	\$3.36 per roll
18 AWG	CAT# 18xx-25	\$4.28 per roll

100 FOOT ROLLS. STRANDED

26 AWG	CAT# 26xx-100	\$5.18 per roll
24 AWG	CAT# 24xx-100	\$5.48 per roll
22 AWG	CAT# 22xx-100	\$7.08 per roll
20 AWG	CAT# 20xx-100	\$9.46 per roll
18 AWG	CAT# 18xx-100	\$12.30 per roll

25 FOOT ROLLS, SOLID

24 AWG	CAT# 24xx-25S	\$2.24 per roll
22 AWG	CAT# 22xx-25S	\$2.64 per roll
20 AWG	CAT# 20xx-25S	\$3.26 per roll
18 AWG	CAT# 18xx-25S	\$4.20 per rolll

100 FOOT ROLLS, SOLID

24 AWG	CAT# 24xx-100S	\$5.32 per roll
22 AWG	CAT# 22xx-100S	\$6.88 per roll
20 AWG	CAT# 20xx-100S	\$9.14 per roll

SPEAKER WIRE

Good quality, stranded 2-conductor clear speaker wire.

18 GA, 50' roll	CAT# 18C-50	\$4.50 per roll
18 GA, 100' roll	CAT# 18C-100	\$8.75 per roll
16 GA, 50' roll	CAT# 16C-50	\$7.50 per roll
16 GA, 100' roll	CAT# 16C-100	\$14.00 per roll
14 GA, 50' roll	CAT# 14C-50	\$9.75 per roll
14 GA, 100' roll	CAT# 14C-100	\$19.00 per roll

MICROPHONE CABLE

2 CONDUCTOR SHIELDED

22 ga. stranded conductor. Braided copper shield. Flexible black PVC outer jacket. 0.23" nominal O.D. CAT# MC-2 10 feet \$4.50 100 feet \$32.00 • 300 feet \$90.00

ORDER TOLL FRE 1-800-826-5432

CO-AXIAL CABLE

RG-6/U, 75 OHM

 18 ga solid center.
 Black. Double shield,

 100% foil shield, 60% aluminum braid.

 CAT# RG-6U
 50 feet for \$10.00

 250 feet for \$37.50 (15¢ per ft.)

 1000 feet for \$120.00 (12¢ per ft.)

RG-58/U COAX CABLE, 50 OHM

BLACK. 20 gauge solid center, 80% copper braid shield, 50 ohm impedance. **CAT# RG-58U** 50 feet for \$17.50 100 for 34ϕ per ft • 500 for 29ϕ per ft 1000 for 27ϕ per ft

RG-174 MINI CO-AX

 BLACK.
 50 ohm impedance.

 26 ga. stranded center.
 Braided copper shield.

 CAT# RG-174
 10 ft. \$2.90

 50 ft.
 \$13.50 • 100 ft. \$25.00

 500 ft.
 \$115.00 • 1000 ft. \$195.00

TUBULAR BRAID TINNED COPPER GROUND STRAP

Mil Spec QQB575B 30T875 tinned-copper braid woven in completely round configuration. Used as ground strap, shielding and protective covering.



 $\frac{1/16"}{CAT# TBG-116}$ Approx 0.07" wide x 0.03" thick when flattened. CAT# TBG-116 75¢ per ft.

<u>7/8"</u> Approx 0.88" wide x 0.05" thick when flattened. **CAT# TBG-78** \$2.00 per ft.

1" Approx1" wide x 0.1" thick when flattenedCAT# TBG-1\$2.50 per ft.

FLAT RIBBON CABLE 0.05" PITCH

0.050" pitch between conductors. 28 AWG stranded conductors. For use with IDC, insulation displacement connectors. 300 Volt rating. UL, CSA

GRAY OR BLUE INSULATION

with red marker stripe on one side. 3M 3365, Spectra Strip 191-2801-0xx, Alpha 3580/xx, Belden 9L280xx or equivalent.

<u>Conductors</u> 10 14	<u>CAT</u>	<u>10 feet</u> \$2.50 \$3.40	<u>100 feet</u>
16	RCBL-16	\$3.60	22.00
34	RCBL-34	\$4.30	30.00
50	RCBL-50	\$5.30	40.00

RIBBON CABLE JUMPERS, 0.10"

Flexible ribbon cable. PC leads on 0.10" centers. <u>CAT#</u>EA

		CAI#	EACH	100
3"	10- conductor	RJ-310	50¢	30¢
2"	11-conductor	RJ-211	50¢	30¢

CATEGORY 5E CABLE, 4 TW PAIRS

4 unshielded twisted pairs (UTP). AWG 24 solid conductors. 350 mHz. Western Electric Standard color coding. UL, CSA listed.

CAT# CTE-5 50 feet for \$9.00 100 feet for \$16.00 1000 feet for \$110.00

30

TELEPHONE STATION WIRE

ROUND STATION WIRE

AWG 24, solid wire.

		,				
<u>cc</u> 4	DND.	<u>CAT #</u> 4C24	<u>50'</u> *special	<u>100'</u> \$10.00	<u>500'</u> \$45.00	<u>1000'</u> \$85.00
	* S	pecial	4C24-50	50' r	oll for \$4.	.50
6		6C24	\$6.50	\$9.50	\$43.00	\$80.00

FLAT TELEPHONE WIRE

AWG 28, stranded wire. For use with crimp-on RJ11, RJ12 and RJ45 modular connectors. Color-coded.

COND.	<u>CAT #</u>	<u>50'</u>	<u>100'</u>	<u>1000'</u>
4	4CF	\$5.00	\$9.50	\$65.00
6	6CF	\$5.10	\$9.75	\$95.00
8	8CF	\$9.50	\$18.00	\$110.00

NETWORKING PRODUCTS

CAT-5E ACCESSORIES

CAT-5E SURFACE-MOUNT JACK

UL certified surface mount RJ45 jack for CAT5E cables. Includes EIA/TIA 568A/B wiring diagram. Quick and easy installation with screw or doublesided tape. Hardware included. CAT# MT-80 \$3.85 each 10 for \$ 3.50 each



RJ-45 DATA COUPLER Connects two CAT-5/6 cables.

Straight-through connection. CAT# MT-88 \$2.50 each

RJ45 MODULAR T ADAPTOR

RJ45, 8-pin modular jacks. CAT# MT-115 \$1.50 each

CATEGORY 5E CABLES

Standard, straight-through Ethernet



Length	CAT#	<u>Ea</u>	<u>10</u>	<u>100</u>
3'	CB-53	2.35	1.95	1.45
6'	CB-560	3.90	3.40	2.90
10'	CB-510	4.25	4.00	3.20
25'	CB-525	6.85	6.20	4.85
50'	CB-550	11.35	10.50	7.20
75'	CB-575	15.75	14.75	12.50
100'	CB-500	18.55	17.00	14.95

LAN/PHONE CABLE TESTER

Instant diagnosis of 4-pair, twistedpair and coaxial cables for continuity, opens, shorts, reversed, transposed and split pairs. Detachable remote unit for installed cabling. For cables with RJ-45 or coaxial BNC connectors. Requires 9 Volt battery. CAT# CT-28 \$12.00 each

MOST ORDERS SHIPPED WITHIN 24-48 HOURS

PHONE ACCESSORIES

CRIMP-ON MODULAR PLUGS

For use with flat telephone wire. Eight pin plugs are for flat cable or CAT5/5E round cable. Crimp tool is on page 74.

4 PIN (6 x 4) RJ-11 MODULAR PLUGS CAT # CMP-4 10 for \$ 2.50 50 for \$ 10.00 • 100 for \$18.00

4 PIN (4 X 4) HANDSET PLUG CAT# CMP-40 35¢ each 100 for 25¢ each



6 PIN (6 x 6) RJ-12 MODULAR PLUGS CAT # CMP-6 10 for \$3.00 50 for \$12.50 • 100 for \$20.00

8 PIN RJ-45 MODULAR PLUGS For round Category 5/5E cable or 8-conductor flat cable. CAT # CMP-8 10 for \$ 3.50 50 for \$ 15.00 • 100 for \$22.50



MODULAR JACKS & PLUGS

MODULAR CORD COUPLER CAT# MT-104 75¢ each 10 for \$6.50 • 100 for \$45.00 1000 for \$300.00



SURFACE MOUNT MOD WALL JACKS

Includes mounting screws and double-sided tape. For new construction or retrofitting.

4 Conductor CAT # MT-103 65¢ each 10 for 50¢ each • 100 pcs for 40¢ each

6 Conductor CAT # MT-111 75¢ each 10 for 60¢ each • 100 pcs for 46¢ each

8 Conductor CAT # MT-181 \$1.25 each

T-ADAPTER FOR MODULAR JACK

For connection of two phones or one phone and one answering machine to one jack. CAT# MT-101 \$1.10 each 10 for \$9.00 • 100 for \$70.00

1 TO 3 MOD PHONE JACK SPLITTER



Allows you to plug three phone devices into one jack. Modular phone plug to three modular phone jacks. CAT# MT-110 \$1.45 each

MOD PHONE CORD SPLITTER

T-adapter for 4-conductor modular telephone cord. Enables the use of two phones or devices on one cord. CAT# MT-118 75¢ each



100 for 50¢ each 500 for 40¢ each • 1000 for 25¢ each

2 LINE SPLITTER

Splits 2-line jacks into Line 1, Line 2 and Line 1 & 2. CAT # MT-105 \$1.50 each

jacks on other end. 6-conductor.

Modular plug one end - dual modular

25' TELEPHONE EXTENSION CORD

CAT# MT-EX2 \$2.40 each



RJ-11 JACK (6-PIN) W/ LEDS Amphenol # RJHS 7067. 6-pin RJ-11 modular jack. Red and green LEDs in left and right corners. Horizontal, pc mount. Large quantity available.



CAT# MT-92 45¢ each • 100 for 30¢ each

8-PIN Horizontal entry. PC leads. CAT# MT-82 75¢ each 10 for 65¢ each • 100 for 55¢ each

RJ-45 JACK W/ LEDS

Shielded 8-pin, RJ-45 modular jack. Green LED in upper right corner. Yellow LED in upper left (looking at the jack). PC mount. CAT# MT-86 85¢ each • 100 for 75¢ each



MODULAR LINE CORDS

4 WIRE - MOD PLUGS BOTH ENDS (RJ-11)

Cross wired for telephone-voice apps. DESCRIPTION c 7 Feet М 15 Feet N 25 Feet Μ

23 X Y		10.0
CAT#	1-9	100+
IT-260	.70	.50
IT-264	1.00	.85
IT-261	1.25	1.10
IT-370	2.25	2.00

25' "FINE LINE" PHONE CORD, 4-WIRE

N

Thin, flexible, easy to conceal. CAT# MT-276

50 Feet

\$1.25 each

4-WIRE HANDSET CORD

7' silver satin



cord. Small, 4P4C handset plugs. CAT# MT-463 85¢ each • 100 for 60¢ each

6 WIRE - MOD PLUGS BOTH ENDS

• • • • • • • •				
Straight-wired data applicati				
DESCRIPTION	CAT#	1-9	10+	100+
7 Feet	MT-363	1.25	1.10	.85
15 Feet	MT-366	1.60	1.50	1.20
25 Feet	MT-369	2.20	1.65	1.30

8 WIRE

7' RJ-45 8P8C

CAT# MT-462 \$1.50 each 10 for \$1.35 each • 100 for \$1.10 each

PHONE PICK-UP

Universal telephone pick-up Suction cup attaches to the earpiece side of a telephone handset. Picks up both sides of the phone conversation. Terminates to a CAT# TPX-1 \$2.00 each 3.5 mm plug.

SHOP ON-LINE WWW.ALLELECTRONICS.CO

RELAYS

KH STYLE (ICE CUBE)

14 PIN (ICE CUBE) relavs. All have clear or opaque plastic dust covers. Relay Size: 1.1" X 0.82" X 1.34" high

12 VDC. 4PDT



12 Vdc, 160 ohm coil. 4PDT contacts rated 5 Amps @ 240 Vac/ 28 Vdc. Solder or socket mount terminals. UL, CSA. CAT # 4PRLY-12 \$4.25 each 10 for \$ 40.00 • 100 for \$ 375.00

24 VDC 4PDT 650 ohm coil. 3 amp contacts. Solder or socket mount CAT# 4PRLY-24N \$4.25 each

120 VAC 4PDT 5A

Guardian # 5310-4C-120A. 120Vac, 4400 Ohm coil. 4PDT contacts rated 5A 24Vdc/220Vac. 27 x 20 x 35.5mm high. Solder/socket pins. Fits standard KH-type relay socket. UL, CSA. CAT# 4PRLY-120A \$4.00 each 10 for \$3.75 each

120 VAC 4PDT P&B. 4PDT contacts,

rated 3 Amps @ 120Vac/ 28Vdc, 1/10 HP. Solder or socket-mount contacts. Note: These relays may have scratches or stickers on the dustcover. They are, however, new, unused and guaranteed. CAT# 4PRLY-120N \$3.00 each 10 for \$2.75 each

120 VAC 4PDT

Kest # KR1205N. 120 Vac, 4500 ohm coil. 4.P.D.T. contacts rated 5 A @ 240 Vac. Red LED indicator lights when coil is actuated. Solder/ socket mount terminals. CAT# 4PRLY-120L \$4.25 each

AUTOMOTIVE / POWER RELAYS

SPDT 40 AMP AUTO RELAY

12 Vdc, 88 ohm coil. Contacts rated 40A. Plastic enclosed relay, 1.1" x 1.2" x 1" high. Plastic flange for bulkhead mounting. Mounts in standard automotive relay socket. CAT# RLY-351 \$2.55 each 10 for \$22.50



DUAL 25 AMP RELAY, 12VDC COIL

NEC# EP2-3N1ST. Twin SPDT power relays in small package. Ideal for motor and solenoid reversible control. 12 Vdc coil @ 225 Ohm. Contact rating 25 A. Power consumption 480 mW. 16.2mm x 23.8mm x 16mm. Fully sealed. RoHS. CAT# RLY-547 \$3.00 each

12 VDC SPDT PC MOUNT RELAY

Omron# G2R-1-E-T130. Sealed pc mount relay. 12 Vdc, 276 Ohm coil. S.P.D.T. contacts rated 16 Amps @ 30 Vdc/250 Vac. 0.50" x 1.12" x 0.97" high. UL/CSA. RoHS Compliant. CAT# RLY-543 \$2.75 each • 10 for \$2.65 each



12VDC SPDT MINI POWER RELAY

NEC# ET1-B3M1S, 12 Vdc SPDT mini power relay. 12.72mm x 13.88mm x 9.90mm. Coil rating 225 Ohm. Contacts rated 16 Vdc @ 25 A. Fully sealed. RoHS. CAT# RLY-549 \$2.35 each



24 VDC SPDT

Small, open-frame, pc mount power relay. Similar P&B T90 style relays. 480 ohm coil. Estimated contact current rating: 15 A(min). 0.9" x 0.71" x 0.72" high. PC pins.



CAT # RLY-275 50¢ each • 10 for \$4.50 100 for \$40.00 • 1000 for \$300.00

24 VDC SPDT RELAY

Hasco #KLT1C12DC24. Miniature, pc mount power relay. Sealed case 0.75" x 0.60" x 0.62" high. 24 Vdc, 1600 Ohm coil. Contacts rated 15A (NO), 12A (NC). UL, CSA, TUV. CAT# RLY-481 \$1.10 each 10 for \$1.00 each • 100 for 65¢ each

24 VDC SPDT 15/10A PC RELAY

Omron # G8P-114P-US. Sealed PC mount relay for home and industrial appliances. 24Vdc, 660 Ohm coil. Contacts rated 15A/n.o., 10A/n.c. 32 x 27 x 21mm high. UL, CSA.



CAT# RLY-553 \$2.00 each 10 for \$1.80 each • 100 for \$1.65 each

8-PIN DPDT SOLDER / SOCKET MOUNT RELAYS

8-pin, DPDT relays. Rated 10A or more. Clear polycarbonate dust cover. 1.1" x 0.83" x 1.37" high. 0.187" solder/ qc terminals or socket mount in CAT#s RST-2, RST-2PC or RST-2SL. UL, CSA.



12VDC 10A 162 Ohm coil Kest # KRLY-2012 CAT# RLY-2012 \$4.00 each

24VDC 10A 625 Ohm coil Kest #KRLY-2024 CAT# RLY-2024 \$4.00 each

24VDC 10A 650 Ohm coil Sky #SKNP-2C CAT# RLY-556 \$3.35 each 100 for \$3.00 each

120VAC 12A 3.87K Ohm coil. Bulkhead mounting flanges. Omron LY2-UA-006244 CAT# RLY-453 \$1.75 each

120VAC 10A 5K Ohm coil Kest # KRLY-2120 CAT# RLY-2120 \$4.00 each

REED RELAYS

5 VDC DIP REED RELAY Meder# DIP05-1A57, 5 Vdc, 350 Ohm coil. S.P.S.T., normally-open contacts.



IC DIP configuration. CAT# RLY-495 60¢ each • 10 for 55¢ each • 100 for 45¢ each

5 VDC S.P.S.T. N.O. REED RELAY

EAC # B1A05X100A1B 5VDC reed relay. 103 Ohm coil. S.P.S.T., normally-open, contacts. 7.5mm diameter x 23mm long. PC leads. CAT# RLY-617



ORDER TOLL FREE 1-800-826-5432

DIP RELAYS

Miniature mechanical relays with pin configurations to fit standard DIP socket configurations (0.1" X 0.3" grid). Some are sealed for PC bath with vents that should be clipped after installation.



3 VDC DPDT DIP RELAY

Kest# KS2E-M-DC3. 3 vdc 45 ohm coil. DPDT contacts rated 2 amps. Small sealed case, 0.8" x 0.38" x 0.4" h. Fits 16 pin IC socket DIP pattern. UL, CSA. CAT# RLY-623 \$1.75 ea. • 10 for \$1.50 ea.

5 VDC DPDT DIP RELAY

Kest# KS2E-M-DC5. 5 vdc 130 ohm coil. DPDT contacts rated 2 amps. Small sealed case, 0.80" x 0.38" x 0.40" high. Fits 16 pin IC socket DIP pattern. UL, CSA. CAT# RLY-625 \$1.75 ea. • 10 for \$1.50 ea.

5VDC DPDT DIP RELAY

Omron # G6A-234P-ST-US 5VDC, 125 Ohm coil. DPDT contacts rated 1A @ 30Vdc / 0.6A @ 125Vac. 20 x 10 x 8mm. UL, CSA. CAT# RLY-649 \$1.65 each

5VDC DIP RELAY

NAIS #DS2E-M-DC5V. 5VDC, DPDT, 65 ohm coil. Contacts rated 2A switching, 3A carry current. Sealed case, 0.78" x 0.38" x 0.36" high. Can be used with 16 pin DIP socket. UL, CSA CAT# RLY-648 \$1.75 each

12 VDC DPDT DIP RELAY

Kest# KS2E-M-DC12. 12 vdc 740 ohm coil. DPDT contacts rated 2 amps. Small sealed case, 0.80" x 0.38" x 0.40" high. Fits 16 pin IC socket DIP pattern. UL, CSA. CAT# RLY-622 \$1.75 ea. • 10 for \$1.50 ea.

24 VDC DPDT DIP RELAY

Fujitsu # FBR46D024. 24Vdc, 2850 Ohm, low-profile DIP relay. DPDT contacts rated 1A. 0.63" x 0.38" x 0.31" h. CAT# RLY-505 \$1.00 each 10 for 85¢ each • 100 for 70¢ each

MISCELLANEOUS PC MOUNT RELAYS

3VDC DPDT MINIATURE RELAY

Takamisawa / Fujitsu # NA3W-K 3VDC, 64.3 Ohm coil. 140mW. Contacts rated 1A @ 30Vdc. Tiny, sealed relay. 15 x 7.5 x 10mm high. UL, CSA. CAT# RLY-528 \$1.30 each 100 for \$1.00 each

MINI SPST 3 VDC RELAY

Takamisawa #JV-3S-KT. 3Vdc. S.P.S.T., normally-open. Contacts rated 5A @ 30 Vdc/ 250Vac. 44 Ohm, highsensitivity coil. Miniature sealed relay, 18 x 10 x 12.5mm high. PC leads. UL, CSA. CAT# RLY-513 \$1.50 each 10 for \$1.25 each • 100 for \$1.10 each

4.5 VDC DPDT MINI-RELAY

Axicom # V23079-A1011-B301. Miniature 4.5 Vdc, DPDT relay. Coil resistance, 145 Ohms. Contacts rated 2 Amps. 15.00 x 7.50 x 9.90mm sealed case. PC pins. UL, CSA. CAT# RLY-534 \$1.40 ea. • 50 for \$1.15 ea.

ULTRA-SMALL 5 VDC DPDT RELAY

Omron G6K-2P-5VDC, 5.2 x 6.5 x 10mm ultra-small pc mount relay. 5Vdc, 237 Ohm coil. DPDT contacts rated 1A/30Vdc. UL. CSA. CAT# RLY-620 \$2.25 each

5 VDC SPDT ULTRA-MINI RELAY

OMRON # G5V-1. Ultra-miniature S.P.D.T. 5 Vdc relay. 7.24mm x 12.25mm x 9.35mm. Coil rating 167 ohm. Contact Ratings: 1.0A @ 30 Vdc, 0.5A @ 125 Vac, 0.3A @ 60 Vdc. Fully sealed. CSA, UL, RoHS. CAT# RLY-548 \$2.00 each

5VDC DPDT MINI-RELAY

NEC# EC2-5NJ. D.P.D.T. sub-mini pc mount relay. Contacts rated 2A @ 30Vdc, 178 Ohm coil. 15 x 7.5 x 8.5mm high. Sealed. PC leads. UL, CSA. CAT# RLY-532 \$1.40 each

5 VDC DPDT RELAY

Omron # G6S-2F-Y-5VDC. Miniature surface-mount relay. 5VDC, 125 Ohm coil. Contacts rated 0.5A @ 125Vac, 2A @ 30VDC. 15 x 7.5 x 9.4mm high. UL, CSA. Tape and reel packaging. CAT# RLY-614 \$1.00 each 10 for 90¢ each • 100 for 75¢ each

5VDC SPDT RELAY

Hasco # KLT1C6DC5. 5Vdc, 70 Ohm coil. S.P.D.T., 6 Amp contacts. 0.87" x 0.63" x 0.66" high sealed plastic case. PC leads. UL, CSA. CAT# RLY-499

10 for 85¢ each • 100 for 60¢ each

6VDC SPDT 10A RELAY

Fujitsu # FBR161NED006-WB 6Vdc, 100 Ohm coil. S.P.D.T., 10 Amp contacts. 0.86" x 0.64" x 0.63" high sealed plastic case. PC leads. CAT# RLY-501 \$ 1.00 each 10 for 90¢ each 100 for 65¢ each

9VDC SPDT RELAY

OEG # ORW-SS-109DM 9Vdc, 223 Ohm coil. S.P.D.T. contacts rated 5A @ 240VAC, 7A @120Vac/24Vdc. 0.83" x 0.63" x 0.69" high sealed plastic case. PC leads. UL, CSA. CAT# RLY-502 95¢ each 10 for 85¢ each • 100 for 65¢ each

12VDC SPDT MINIATURE RELAY

Omron # G5V-1 12VDC. Ultra-miniature, highly sensitive SPDT relay for signal circuits. 12.5 x 7.5 x 10mm. High-sensitivity, 150mW nominal coil power. 12Vdc, 960 Ohm coil. Carry current to 1A @ 60Vdc. Fully sealed. PC leads. UL, CSA. CAT# RLY-619 \$1.25 each

100 for \$1.00 each

12 VDC, SPDT RELAY

Fujitsu # FBR 211NA DO12U-M. Sealed pc mount relay. 12 Vdc, 320 Ohm coil. S.P.D.T. contacts rated 1 Amp @ 28Vdc resistive or 0.5 Amp @ 30 Vac



resistive. 0.65" x 0.46" x 0.42" high. UL, CSA. CAT# RLY-461 \$1.00 each • 10 for 85¢ ea.







NO HASSLE RETURN POLICY







MICROMINIATURE 12 VDC SPDT RELAY

Fujitsu #FBR21D12. Subminiature pc mount relay, 7.5 x 10 x 10mm high. 12Vdc 534 Ohm coil. SPDT contacts rated 1A @ 24Vdc. 0.5A @120VAC. Maximum carry current, 2A. Note: PC leads are not as stiff as those on other relays. Not suitable for automatic insertion.

CAT# RLY-616 80¢ each 10 for 65¢ each • 100 for 50¢ each

12VDC SPDT RFLAY

Hasco # SSD 103PU DC12V Miniature sealed relay, 12Vdc. 320 Ohm coil. S.P.D.T., 3A contacts. 0.90" x 0.70" x 0.55" high. PC leads, UL. CAT# RLY-498 75¢ each 10 for 70¢ each • 100 for 50¢ each

12 VDC SPST N.O. PC RELAY

MSD Inc (Magnecraft)# 276AXXH-12D 12 Vdc S.P.S.T., normally-open, pc mount relay. 720 Ohm coil. Contacts rated 10A @ 120/250Vac 30Vdc. 20 x 13 x 10mm (0.78" x 0.50" x 0.38"). PC leads. UL, CSA. CAT# RLY-557 \$1.75 each 12 for \$1.60 each

12 VDC SPDT PC MOUNT RELAY

Taiko #CX-10N. 12 Vdc, 500 Ohm coil. S.P.D.T. contacts rated 5A 14 Vdc (motor load) 10A (switching), 20A (carry current for 10min. max). 22 x 16 x 16mm high. PC pins. Sealed. CAT# RLY-555 \$1.30 each 10 for \$1.20 each

12VDC 10A SPDT RELAY, PC MOUNT

Song Chuan #812H-1C-S. 12Vdc, 400 Ohm coil. S.P.D.T. Contacts rated 10A/125Vac. Sealed case, 21 x 16 x 16mm high. PC leads. UL, CSA. CAT# RLY-560 \$1.25 each 10 for \$1.10 each

MINIATURE 12 VDC RELAY

Potter & Brumfield # T81H5D312-12. 12Vdc, 700 Ohm coil. S.P.D.T. Contacts rated 1A 120VAC/24VDC. Miniature sealed case, 0.61" x 0.41" x 🕴 0.46" high. PC pins. UL, CSA. CAT# RLY-516 90¢ each 25 for 80¢ each • 100 for 65¢ each

12 VDC DPDT RELAY

OEG # OMI-SS-212L. 12VDC, 270 Ohm coil. D.P.D.T., 5A contacts. 1.15" x 0.50" x 0.80" high sealed case. PC leads. UL, CSA CAT# RLY-497 \$2.50 each 100 for \$2.00 each



12VDC SPST N.O. RELAY

Song Chuan # 892HN-1AH-S Small, 12Vdc S.P.S.T., normally-open, sensitive pc mount relay. 12Vdc, 720 Ohm coil. Contacts rated 10 Amps/ 125Vac. Sealed case, 20 x 10 x 16mm high. PC leads. CSA, CUR, TUV. CAT# RLY-531 \$1.10 each 25 for 95¢ each • 100 for 80¢ each



24VDC SPST N.O. MINI-RELAY

Zettler # AZ695-24. 24VDC, S.P.S.T., normally-open contacts. Sensitive sub-miniature relay. 2880 Ohm coil. Contacts rated 5 Amps @ 30Vdc or 250Vac. 17.0 x 6.5 x 12.5mm high. PC pins. UL. CAT# RLY-535 \$1.00 each • 10 for 85¢ each



24 VDC DPDT RELAY

Potter & Brumfield # KU-6269. KU-style, 8-pin relay. 24Vdc, 475 Ohm coil. D.P.D.T. contacts industrial rated 3A, 1/2HP, 600VAC. 1/3 HP, 120 Vac, 10A, 240 Vac. UL, CSA. Clear polycarbonate case, 52 x



38 x 35mm. 0.187" QC/solder terminals or socket mount in standard KU-style socket. CAT# RLY-550 \$4.00 each

SOLID STATE RELAYS

1 AMP

Crouzet M-OAC5-315. Input: 3 - 8 Vdc. Output: 1 Amp, 24-140 Vac. PC mount. solid-state relay. 1.70" x 1.03" x 0.38". UL, CE. CAT# SRLY-19 \$3.25 each

ALUMINUM DIN RAIL

Screw terminal sockets . An easy way to attach multiple relay sockets. Sockets snap-on and off of rail. DIN rails come in 1 meter (39") lengths with pre-drilled mounting holes every inch. Can be cut to shorter lengths.



CAT# C102P \$5.00 each • 10 for \$47.50

RELAY SOCKETS

KH RELAY SOCKETS

Fits all KH and KHU style, 14 pin relays except PC mount style (most relays starting with CAT# 4PRLY).

Solder-loop terminals. Note: Terminals and contacts may be discolored. CAT# PRLY-S 2 for \$1.00



100 for 40¢ each

Screw terminals. Can be surface mounted or snap-mounted to aluminum DIN rail. UL and CSA. 1.17" X 2.44" X 0.98". CAT# MT14-PC

\$5.50 each • 10 for \$50.00

PC pins for PC board mount. CAT# PRLY-SC 75¢ each



8 PIN OCTAL SOCKETS

PC mount socket for round base 8 pin relays and vacuum tubes. CAT# OCT-PC \$1.25 each 10 for \$1.10 each • 100 for 95¢ each

Screw terminals for easy connections and changes. Can be surface mounted or used with aluminum DIN rail. UL listed. CAT# OTO8-PC \$2.90 each • 10 for \$2.75 each



E-MAIL US - allcorp@allcorp.com

8-PIN DPDT RELAY SOCKETS

For 8-pin, DPDT relays with rectangular base. Fits our CAT#s RLY-2012. RLY-2024. RLY-2120. RLY-453 and RLY-556. UL. CSA.

PC PINS CAT# RST-2PC \$1.20 each

SOLDER TERMINALS CAT# RST-2SL \$1.35 each

SCREW TERMINALS Bulkhead, surface mount. 2.6" x 0.87" x 1" high. CAT# RST-2 \$6.45 each

AUTO RELAY SOCKETS

Pre-wired sockets for use in automotive alarms, door-locks,starter-interrupt, light circuits and other auto applications. Color-coded leads. Will fit our relay, CAT# RLY-351.

5 WIRE SOCKET

with two 18 AWG leads and three 14 AWG leads. Sockets can be interlocked side-to-side.



CAT# SRLY-2 \$2.25 each • 10 for \$ 17.50

DUAL RELAY SOCKET

Dual 5 wire sockets designed for door-lock applications. CAT # SRLY-4 \$ 3.25 each 10 for \$ 27.50



MINIATURE 12VDC PUSH-TYPE SOLENOID

Ledex™. 0.5" dia. x 1" long tubular solenoid with 3/8" dia. threaded bushing for mounting. 1/16" dia. x 1/2" long plunger. 40 Ohm coil. Operates on 12 Vdc. 1" wire leads. CAT# SOL-102 \$2.75 each 10 for \$2.50 each

24 VDC SOLENOID, INTERMITTENT DUTY

Potter & Brumfield

S28-25-D-24. 24Vdc, 48 Ohm coil.

Intermittent duty. 1.18" x 1.00" x 1.17" box solenoid. 0.312" diameter slotted plunger with hole for pin. Solder-lug/ 0.187" gc terminals. UL. Made in USA. CAT# SOL-140 \$4.75 each

SOLENOID VALVE

12 Vdc, 100mA solenoid valve. Open when activated. Body: 24mm diameter x 31mm long. 62mm overall length, including inlet and outlet



ports and terminals. 0.19" diameter ports. Used, removed from equipment. CAT# SOL-132 \$2.50 each

HEAT SINKS

31 X 16 X 11MM HEATSINK

Black anodized aluminum heatsink 31 x 16 x 11mm high. The middle 16 x 16mm underside surface is prepped with thermal compound. Designed for a device, 16mm wide. CAT# HS-154 45¢ each



COPPER HEATSINK FOR TO-220

THM 6030. Vertical mount, tin coated copper heatsink for TO-220 device. 30 x 25.5 x 12mm. CAT# HS-6030 \$1.50 each



TO-220 CLIP-ON HEATSINK

Aavid Thermalloy #7139D Copper heat sink with integrated slide-on mounting clip. Tin plated. 19.81 x 13.21 x 13.08mm (0.780" x 0.520" x 0.515").

CAT# HS-7139 3 for \$1.00 • 100 for \$25.00

TO-220 HEATSINK

10 for \$1.30 each

Thermalloy # THM6079. Black anodized heatsink. 0.75" x 0.52" 0.5" h. With PC pin. **CAT# HS-325** 25¢ each • 100 for \$20.00



HEATSINK FOR TO-220/TO-202

Thermallov# THM 6047. Clip-on black anodized aluminum heatsink for TO-220/ TO-202, tab-type semiconductors. 20.5 x 21.5 x 8.0mm. CAT# HS-6047 4 for \$1.00 100 for 20¢ each



HEATSINK FOR TO-220 / TO-202

Thermallov# THM 6038. Black anodized aluminum heatsink. Spring-clip holds TO-220/ TO-202, tab-type semiconductor in place. Three mounting legs. Overall dimensions, 1.2" x 1.0" x 0.5" (31 x 26 x 13mm). CAT# HS-6038 3 for \$1.00

1.47" X 1.47" X 0.24"

Aavid # 028086. Green anodized aluminum heat sink. 37.4mm x 37.4mm x 6mm high with 59mm mounting centers. Heat



sink originally configured for BGA package sizes, includes plastic push pins that are standard for 1.5mm pc board and 2.5mm thick BGA packages. CAT# HS-28 50¢ each • 10 for 45¢ each

HEATSINK FOR TO-3 AND TO-220

Black anodized aluminum heatsink with holes for one TO-3 device and eight TO-220 devices. 46 x 46 x 34mm high. CAT# HS-29 \$1.50 each



RECHARGEABLE BATTERIES

RECHARGEABLE NICKEL METAL HYDRIDE

Nickel Metal Hydride batteries have double the capacity of standard nickel cadmium cells and can be charged faster without the "memory problems" associated with nickel cadmium batteries.

NI-MH AAA CELL W/ SOLDER TABS

Rechargeable Ni-Mh AAA cell with solder tabs. 1.2V 600 mAH. CAT# NMH-AAAT \$2.75 ea. • 10 for \$25.00

AAA CELL 1.2 Volt. 1 Tenergy 1000 mAh. 0.4" dia. X 1.74" long. CAT# NMH-AAA \$2.50 each • 10 for \$21.00

AAA NIMH



Sanvo "eneloop' 1.2V 750-800mAh rechargeable battery. According to the literature, the key-advantage of the eneloop compared to conventional rechargeable batteries is its extremely low self-discharge. Once charged eneloop keeps 75 percent of its charge after 3 years. Older date code. Special price. \$1.60 each CAT# NMH-R3

SPECIAL !

10 for \$1.25 each

NIMH AA CELL. W/ SOLDER TABS 1.2 Volt, 2000 mAH.

CAT# NMH-AAT \$3.25 each

AA CELL, 2500 mAH



ULTRA-HIGH CAPACITY 1.2 Volt. 2500 mAH. 0.56" diameter x 1.99" long. CAT# NMH-AA \$2.95 each 8 for \$2.75 each • 60 for \$2.40 each

C-CELL, 5000 MAH

1.2V. 26mm dia, x 50mm long. Standard charge, 16 Hours @ 300mA. Rapid charge, 2 Hours @ 3000 mA. CAT# NMH-C \$5.95 each



D-CELL, 10,000 MAH

1.2V. 33mm dia. x 60mm long. Standard charge, 15 Hours @ 800mA. Rapid charge, 3 Hours @ 4000 mA. Weight, 0.36 lbs per cell. CAT# NMH-D \$10.85 each



9V 250 MAH CAT# NMH-925 \$6.35 each • 10 for \$5.85 each



RECHARGEABLE NICKEL-CAD

AA CELL 1.2 Volt. 800 mAh CHARGEABLE CAT # NCB-AA \$2.25 each 10 for \$2.00 each • 100 for \$1.50 each

NICKEL-CAD CELLS W/ SOLDER TABS

1.2 Volt cells with solder tabs. For building or re-building battery packs.				
<u>Type</u> <u>Capacity</u>	<u>CAT #</u>	Dimens 1-9	<u>sions</u> 10+	
AA	NCB-SAA	<u>0.56" x</u>	<u>1.90"</u>	
900 mAH		2.75	2.50	
Sub-C	NCB-SC	<u>0.90" x</u>	<u>1.69"</u>	
<u>1800 mAH</u>		4.95	4.75	
DECHADGEARI E DACKS EOD				

RECHARGEABLE PACKS F CORDLESS PHONES

NCB-300 and NCB-600 below have a "universal" connector that can be configured to fit most phones. Pictures and instructions available on our web site.

2/3 AA PACK

3.6 Volts, 300 mAh. Three 2/3 AA cells. Nickel cad. **CAT# NCB-300** \$3.45 each • 10 for \$3.10 each



3.6 Volts. 800 mAh. Three AA cells. Nickel cad. CAT# NCB-600 \$6.25 each • 10 for \$6.00 each

2.4V, 800 mAH Nickel Metal Hydride. Two AAA cells with 2-conductor female JST connector. 1.85" x 0.81" x 0.43". CAT# NMH-JST2 \$6.00 each

3.6V. 800 mAH Nickel Metal Hvdride . Three AAA cells with 2-conductor female JST connector. 1.85" x 1.23" x 0.43". CAT# NMH-JST3 \$6.50 each



3.6V, 800 mAH, Nickel Metal Hydride Three AAA cells with 2-conductor female MS connector. 1.85" x 1.23" x 0.43". CAT# NMH-MS \$6.50 each

CHARGER FOR NIMH OR NICAD

For AA, AAA, C, D and 9V batteries For Nickel Metal Hydride or Nickel

Cadmium rechargeable batteries. Slow and fast charge

settings. LED indicators to monitor charge CAT# BC-26 \$13.95 each 111

PLUG-IN NICAD & NI-MH BATTERY CHARGER

Charge 2 or 4 AA/AAA batteries. Input 120 Vac. Red LED indicates charging. AC plug folds into case for ease of storage. UL. CAT# BC-33 \$6.95 each



Vanson #V-228. 9VDC 16mA. Compact wall charger New charges one or two 9V Nickelmetal-hydride or Nickel-cadmium batteries. Full charge in 8-20 Hours, depending on capacity of battery and state of discharge. cULus.



CAT# BC-916 \$4.95 each 30 DAY MONEY-BACK GUARANTEE

36
SEALED LEAD ACID BATTERIES

Maintenance-free, rechargeable sealed lead-acid batteries. Can be used in any position and can be trickle charged for long periods of time. Excellent for alarms, communications



and back-up applications. WILL NOT LEAK.

6 VOLT 1.2 AH 3.82" x 0.96" x 2.22" 0.64 lb CAT# GC-612 \$8.00 each

6 VOLT 4.5 AH 2.76" x 1.85" x 4.17" 1.83 lb CAT# GC-64 \$10.00 each

6 VOLT 12 AH 5.94" x 1.94" x 3.82" 4.06 lb CAT # GC-610 \$19.50 each

12 VOLT 1.2 AH 3.82" X 1.68" X 2.07" high. 1.32 lb **CAT # GC-1212** \$12.50 each

12 VOLT 2.3 AH 7.00" x 1.38" x 2.50" 2.20 lb **CAT# GC-1223** \$15.00 each

12 VOLT 5 AH 3.54" x 2.76" x 4.21" 3.09 lb **CAT# GC-125** \$17.50 each

12 VOLT 7.5 AH 5.94" x 2.56" x 3.94" 4.96 lb **CAT# GC-1270** \$23.50 each

12 VOLT 12 AH 5.94" x 3.88" x 4.00" 8.38 lb **CAT# GC-1214** \$43.00 each

12 VOLT 18 AH 7.13" x 3.01" x 6.57" 11.90 lb **CAT# GC-217** \$59.00 each

12V CHARGERS FOR LEAD ACID

12 VDC DUAL-STAGE CHARGERS

Dual stage output and regulated current control to insure that no damage occurs while battery remains on charger. "Fast-charge" cycle of 15Vdc, brings battery to fully charged state at which point the



float-charge takes over, maintaining the battery at a constant 13.8 Vdc. LED indicators; red indicates fast-charge, green indicates power-on and float-charge. Screw terminals allow user to attach desired cable and connector. UL.

Charge Rate	CAT#	<u>each</u>
500 mA	BC-212	\$14.00
1A	BC-201	\$19.00

2A BATTERY CHARGER/MAINTAINER

Peak® # PKC0AF. Ideal for cars, motorcycles, snow mobiles, rc models and toys. Three stage, integrated circuit controlled charging cycle for 12V sealed lead acid batteries, 5 -20 AH capacity. Charges and maintains batteries at

peak stand-by-level until needed. Short circuit, over current, over voltage battery polarity protection. Three quick-connect adapters with ring terminals, alligator clips and cigarette lighter plug. UL. CAT# BC-80 \$21.95 each

24 VDC 3 AMP BATTERY CHARGER

Soneil 2408S33-B. Charges 24 Volt gel, sealed or wet, lead-acid batteries to a full charge and maintains a float charge during periods of inactivity.



Solid-state circuitry prevents overcharging. LED lamps indicate charging cycle. Fuse protected. 2' output cord with 4-pin polarized connector. Detachable power cord included. CAT# BC-240 \$35.95 each

RECHARGEABLE CR123 BATTERY

RCR123A 3.0V 750mA Rechargeable LiFePO4 battery. 16.5mm dia. x 34mm long. Rechargeable replacement for CR123 lithium cells used in flashlights and cameras. Charger for this battery - CAT# BCR-123. CAT# LCR-123 \$3.75 each



CHARGER FOR RCR123A 3.0V CELL

Lightweight charger for rechargeable CR123 (RCR123A) lithium batteries. IC control prevents overcharging. LED status lamp: Red = charging, Green = fully charged. Charger output 3.6Vdc / 360mA.

Includes cords for home or automobile charging. CAT# BCR-123 \$21.00 each

BATTERIES NON-RECHARGEABLE

INDUSTRIAL ALKALINE BATTERIES

DURACELL® PROCELL® AA CELL, 1.5 VOLT 2100 mAH CAT # PRC-1500 75¢ each



AAA CELL, 1.5 VOLT 1000 mAH **CAT # PRC-2400** 75¢ each

C CELL 1.5 VOLT 7000 mAH CAT # PRC-1400 \$ 1.75 each

D CELL 1.5 VOLT 14000 mAH CAT# PRC-1300 \$1.75 each

9 VOLT BATTERY 565 mAH CAT # PRC-1604 \$ 2.75 each



choice for low drain devices like remote controls, clocks, smoke alarms, radios and flashlights.



AAA CELL	CAT# HD-AAA	4 for \$1.00	100 for \$20.00
AA CELL	CAT# HD-AA	4 for \$1.00	100 for \$20.00
C CELL	CAT# HD-C	2 for \$1.00	96 for \$34.56
9 VOLT	CAT# HD-9V	85¢ each	96 for \$54.72

FAST FRIENDLY SERVICE

12 VOLT ALKALINE BATTERIES FOR REMOTES

12V 27A MN27. For remote controls, lighters and other electronic devices. Also known as G27A / MN27A / A27 / L828 / EL812 / EL-812 / MI VI CA22 / VR22 / CN22 / CN23A / Bronica B-1. 0.3" diameter x 1.08" long. CAT# BAT-27 \$1.75 each

0.41" dia. x 1.13" long cylindrical cell used in keychain alarm remotes and photo apps. CAT # BAT-12 \$1.25 each • 10 for \$ 10.00

8

6 VOLT ALKALINE BATTERY

4LR44, L1325, 28A, A544, PX28A, 25mm long x 13mm diameter. CAT# BAT-44 \$2.00 each 5 for \$1.75 each



LITHIUM BATTERIES

Lithium batteries have a very long shelf life, typically ten years or more. They are not rechargeable.

3 VOLT. 40 mAh CR1220, 12.5mm diameter x 2mm thick. CAT# LBAT-62 \$1.50 each



3 VOLT, 50 mAh CR1616, 16mm diameter x 1.6mm thick. CAT# LBAT-28 \$1.00 each

3VOLT, 70 mAh CR1620 16mm dia. x 2mm thick. CAT# LBAT-58 85¢ each • 10 for 75¢ each

3 VOLT, 75 mAh CR2016. 0.787" diameter X 0.06" thick. CAT# LBAT-21 75¢ each 10 for \$6.50 • 100 for \$45.00

3 VOLT 150 mAh CR2025. 0.8" diameter x 0.1" thick. CAT# LBAT-44 \$1.00 each • 10 for 75¢ ea.

3 VOLT, 180 mAh

Toshiba# CR2032. 3 volt, 180 mAh. 0.8" diameter. CAT # LBAT-20 \$1.00 each 10 for \$8.50 • 100 for \$70.00

CR2450 3V 24.5mm dia. x 5mm thick. 3V. CAT# LBAT-2450 \$1.50 each

3V LITHIUM CELL, CR-2



High-energy Reliant Lithium Battery. Replaces CR2, DLCR-2, EL1-CR2, RCLR2, 5046LC batteries. 0.6" dia. x 1.06". Long-life power source used in high-performance flashlights, cameras and digital electronics. Best if used by 2015. CAT# LBAT-2 85¢ each 10 for 75¢ each • 200 for 50¢ each

LITHIUM BATTERY CR123A 3V, 1300 mAh. Long-life power



source used in high-performance flashlights, cameras and digital electronics. 1.34" long x 0.65" diameter. Replaces: Energizer EL123APB2, Duracell DL202, Panasonic CR123A, Kodak K123LA, GE Sanyo CR123A. CAT# LBAT-123 \$2.00 each

10 for \$1.85 each 38

ER 9V 1200MAH LITHIUM BATTERY

9V. 1200 mAh Lithium Manganese Dioxide (Li-MnO2) battery. High-energy density, longlasting replacement for 9V alkaline or carbonzinc batteries. Wide operating temperature range, -40C to 60C. Lasts up to 5X longer than alkaline, 10X longer than carbon zinc. Ideal for medical, music, audio, safety and communication devices. Maximum recommended continuous current, 400mA. Nickel-plated steel



housing. Not rechargeable. UL. CAT# LBAT-92 \$6.75 ea. • 10 for \$6.50 ea.

3.6V 1/2AA-SIZE BATTERY W/ WIRE LEADS

3.6V, 1200mAH non-rechargeable lithium battery with wire leads. 14mm diameter x 24mm long. CAT# LBAT-125 \$3.00 each

3.6V AA SIZE BATTERY W/LEADS

3.6V. 2400mAH. non-rechargeable⁻ lithium battery with wire leads. 14mm dia. x 51mm long. CAT# LBAT-124 \$4.00 each

1.5V BUTTON CELLS

AG-13 11.5mm diameter x 5.5mm. Cross to 357, AG-13, A-76, LR-44, V13GA and RW-82. Alkaline. CAT# BAT-7 75¢ each • 10 for \$5.00



AG10/L1131 Vinnic® L1131. Cross to LR54, 189, RW89, AG10. 11.6mm diameter x 3mm high. CAT# BAT-11 75¢ each

10 for 50¢ each AG-3 Cross to AG-3, 392A, SR41, CX41, LR41W and others. 7.9mm diameter x 3.6mm. Alkaline.

CAT# BAT-3 50¢ each • 10 for 40¢ each

SG-4 replaces AG-4, 626A, 377A, CX66W and others. 6.8mm diameter x 2.6mm. Silver oxide. CAT# BAT-4 75¢ each • 10 for 50¢ each

386S (silver oxide) replaces SG12/G12/SR43/ 386/ 548/6/RW24, 44 button cell. 0.45" dia. x 0.15" thick. For watches, cameras, games etc. CAT # BAT-8 95¢ each • 10 for \$7.00

BATTERY SELECTOR

Quickly identify all kinds of button cell batteries. Common numerical designation is next to the slot that fits the battery. CAT# BS-3 \$2.00 each



MANUFACTURERS We Purchase Excess Inventories. CALL, WRITE, E-MAIL or FAX your list.

VISIT OUR WEBSITE - WWW.ALLELECTRONICS.COM

BATTERY HOLDERS

A	B	C (10) (3)	D	E	BER BANA D	F
C	0		W	S.C.M.	and the second s	3.4
N-CELL H	OI DER & 2/3	AA CELL HOLI	DER	Ø.		
# OF CELLS	<u>CAT#</u>	TERMINATION	STYLE	EACH	<u>10</u>	<u>100</u>
1	BH-50	Solder terminals	A	50¢	45¢	32¢
	ERY HOLDE	RS				
1	BH-41	6" wire	А	85¢	75¢	60¢
2	BH-42	6" wire	В	90¢	80¢	70¢
4	BH-44	6" wire	С	\$1.10	95¢	80¢
4	BH-442	6" wire	D	95¢	80¢	70¢
AA BATTE	RY HOLDER	S				
1	BH-31	Solder tabs	А	75¢	65¢	50¢
1	BH-311	6" wire	Α	75¢	65¢	50¢
2	BH-32	6" wire	В	85¢	75¢	60¢
2	BH-321	9V battery snaps	F	85¢	75¢	60¢
4	BH-342	6" wire	D	\$1.10	95¢	80¢
4	BH-341	6" wire	С	\$1.10	95¢	80¢
4	BH-443	9V battery snaps	F	\$1.00	85¢	70¢
NEW 4	BH-445	* see below		\$2.50	\$2.35	\$2.25
6	BH-361	9V battery snaps	E	\$1.75	\$1.55	\$1.10
NEW 8	BH-38	9V battery snaps	E	\$2.25	\$2.10	\$1.85
C BATTER	Y HOLDERS					
4	BH-241	8" wire	В	\$1.90	\$1.75	\$1.20
D BATTER						
2	BH-142	8" wire leads	В	\$1.95	\$1.75	\$1.35
2	BH-143	9V battery snaps	В	\$1.85	\$1.70	\$1.25
4	BH-141	6" wire leads	В	\$2.00	\$1.80	\$1.40
4	BH-144	6" wire leads	В	\$2.00	\$1.80	\$1.40

*** BATTERY CASE FOR 4 AA CELLS**

Four AA cell battery case with latching lid and detachable 5" cord. Right-angle coax plug mates with socket inside battery case. Cord



cannot be removed when lid is on case. 2.50" x 2.79" x 0.75", overall. CAT# BH-445 \$2.50 each

INVENTOR'S KIT FOR ARDUINO

The SparkFun Inventor's Kit for Arduino is a box of goodies to get the very beginner started with programmable electronics. It includes the Arduino Uno R3, a solderless breadboard and all the bits you need to build 12 basic circuits. No soldering required. Recommended for ages 10 and up. 36 page color starter guide.

CAT# SFA-22 \$99.95 each 10 for \$89.96 each



WITH VINYL COVERS

I-TYPE 3" wire leads. **CAT# BST-3** 4 for \$1.00 • 100 for \$15.00

T-TYPE 6" leads CAT # BST-61 2 for \$1.00 • 100 for \$30.00

I-TYPE 5" leads. CAT# BST-51 2 for \$1.00 • 100 for \$30.00

WITH PLASTIC COVERS I-TYPE 6" leads CAT# BST-7 2 for \$1.00

T-TYPE 7" leads CAT# BST-81 55¢ each



YPF

I-TYPE 11.5" leads CAT# BST-12 60¢ each

COIN CELL HOLDERS

12.5mm For 12.5 mm coin cells, like our CAT# LBAT-62 (CR-1220). Surface mount solder tabs. Overall dimensions, 0.71" dia. x 0.18" h. **CAT # BH-15** 4 for \$1.00 100 for \$20.00 • 1000 for \$100.00



39

CABLES, CONNECTORS & **ADAPTERS**

VIDEO/AUDIO DUBBING CABLES

VIDEO CABLES W/ RCA PLUGS

	Reinigen Aufligen A	
CAT#	<u>each</u>	<u>100</u>
VMC-6	75¢	45¢
VMC-12	\$2.25	\$1.50
VMC-25	\$3.50	\$2.60
	VMC-6 VMC-12	VMC-6 75¢ VMC-12 \$2.25

STEREO VIDEO CABLES

75 ohm video cable with two audio cables for stereo dubbing.

6'



3'



12' CAT# AVS-212 25' CAT# AVS-251 \$8.85 each

CAMCORDER / IPOD A/V CABLES

High-performance video and audio cables for iPods and camcorders .

6 ft cable - 3.5mm (4-conductor) right-angle plug -- three, color-coded RCA plugs. CAT# CB-219 \$3.50 each • 10 for \$3.00 each

3 ft cable - 3.5mm (4-conductor) plug three, color-coded RCA jacks. CAT# CB-218 \$3.00 each 100 for \$2.20 each



A/V CABLE, 3.5MM TO RCA

6' combination audio and video cable with 3.5mm phone plugs (one mono, one stereo) on one end and three RCA plugs on the other. CAT# CB-222 \$4.50 each



FAST

CABLES F CONNECTORS

75 Ohm, RG-6U high-definition cable. AWG 18 solid copper-clad steel center. Double Aluminum foil shield plus 67% tinned-copper braid shield. UL-AWM style 1354 80° C, 300V.

FEET	COLOR	CAT#	each	10	100
14"	White	VHR-14W	0.75	0.65	0.50
31"	Black	VHR-31B	1.00	0.90	0.70
3'	Black	VHR-3B	1.20	1.00	0.80
6'	Black	VHR-6B	1.60	1.35	1.15
25'	White	VHR-25W	4.00	3.60	3.20
50'	Black	VHR-50B	8.00	7.00	6.20

S-VIDEO PATCH CABLE

Miniature 4 pin mini DIN plugs both ends. 6' CAT# CB-376 \$1.75 each

TOSLINK OPTICAL CABLE

Precision audio link between DVD, CD players, and A/V Receivers.

3 Foot Cable	CAT# OCB-3	\$2.50 each
6 Foot Cable	CAT# OCB-6	\$4.50 each
12 Foot Cable	CAT# OCB-12	\$5.50 each

HDMI CABLES & ADAPTERS

State-of-the-art connectivity for HDTV sets, DVD players/



recorders. 3' CAT# HDM-3 CAT# HDM-6 6' CAT# HDM-10 10' CAT# HDM-15 15'

30'

\$6.75 each \$8.50 each \$14.35 each \$17.00 each \$24.95 each

HDMI FEMALE TO FEMALE COUPLER

CAT# HDM-30



Join two HDMI cables. Female to female cord coupler. CAT# AD-57 \$6.95 each

HDMI RIGHT-ANGI F ADAPTER

HDMI male to HDMI female. Accommodate tight spaces behind flat panel TVs and monitors. CAT# AD-62 \$4.50 each



HDMI MALE to DVI FEMALE ADAPTER

Converts one end of HDMI or DVI cable to duallink DVI to HDMI. CAT# AD-56 \$10.95 each



MINI-HDMI CABLES

Sometimes called Micro-HDMI. found on many digital cameras and camcorders to input directly to HDMI television inputs.

3' CABLE HDMI-M / MINI-HDMI-M CAT# HDM-231 \$6.50 each

10' CABLE HDMI-M/ MINI-HDMI-M CAT# HDM-233 \$8.00 each

8" ADAPTER CABLE - Converts mini-HDMI-M to Standard HDMI-F CAT# HDM-230 \$6.50 each

MICRO-HDMI CABLE

Micro-HDMI (Type D) to standard HDMI (Type A) connector. Compatible with Droid and Evo phones, Samsung and Olympus cameras & others. **CAT# HDM-232**



\$9.95 each RIENDLY SERVICE



F CONNECTORS AND ADAPTERS



from an outdoor antenna or satellite dish. Two F-connectors, one ground screw. **CAT# GB-20** 85ϕ each • 10 for 75¢ each

COAX CRIMP TOOLS

COMPRESSION TOOL FOR F-CONNECTORS

Economical, easy-to-use compression tool for coax compression connectors. Two-way adjustable nesting fixture works with most series 6, 59 compression connectors. Makes a permanent, professional connection that never comes loose. CAT# CT-56 \$11.95 each

HEX-CRIMP TOOL FOR COAX CONNECTORS



For F, BNC, UHF, TNC, SMA connectors. Creates a solid, even hex crimp on coax fittings and RG59 and RG6 cable. CAT# CT-007 \$18.00 each

CO-AX CONNECTORS

BNC CONNECTORS

	CAT#	<u>#1-9</u>	<u>10-99</u>	<u>100+</u>	
	MALE CRIN	IP-ON	3-piece		
	BNC-59	RG-59	/62 Cable		
Con Co		.85	.70	.55	
	BNC-6	RG-6			
(.85	.70	.55	
	BNC-58	RG-58	Cable		
		.85	.70	.55	
	MALE TWIS	T-ON			
	UG-260TW	RG-59	/62 Cable		
1 2 1		\$1.00	.85	.70	
C. LE.X	UG-6TW	RG-6 (RG-6 Cable		
		\$1.00	.85	.70	
	UG-88TW	RG-58	Cable		
		\$1.75	\$1.60	1.25	
		0			





50 OHM BNC RECEPTACLE Tyco (AMP) 414284-1. Right-angle, pc / panel mount decoupled BNC RF receptacle. 50 Ohm impedance. 0.5" threaded plastic bushing. CAT# BNC-149 \$1.85 each

DUAL BNC JACK. RIGHT ANGLE PC MOUNT Amphenol Connex # 112660. Dual BNC jacks, 75 ohm. Stacked vertically on 16mm centers. Overall dimensions, 14.40 x 36.20 x 29.25mm high. PC mount. CAT# BNC-150 \$3.75 each



BNC RECEPTACLE UG-1094U Front-mount BNC receptacle. 50 ohm. Tefton dielectric. Gold-plated terminal. Threaded bushing. CAT# BNC-19 \$1.75 each 10 for \$1.65 each



BNC JACK ISOLATED PANEL MOUNT CONNECTOR 3/8" diameter nylon threaded feed-thru bushing CAT# BNC-148 \$1.85 each 10 for \$150 each

BNC ADAPTERS

- STORE -	- march	
	and in case	

<u>CAT# #1-9 10-99 100+</u> UG-914 <u>MALE COUPLER</u> Female both ends **UG-914** .90 .75 .60





UG-491A/U FEMALE COUPLER Males both ends BNC-BNC 1.80 1.50 1.20

UG-306 **<u>RIGHT ANGLE ADAPTER</u> UG-306** 2.40 2.00 1.60



UG-274 <u>BNC SPLITTER</u> BNC-T 1.50 1.25 1.00



 BNC-T ADAPTER
 (3 female fittings)

 BNC-T2
 2.10
 1.75
 1.40



50 OHM BNC TERMINATOR BNC-50 1.20 1.00 .80

75 OHM BNC TERMINATOR BNC-75 1.20 1.00

1.20 1.00 .80

75 OHM CABLE SPLITTERS



2 WAY SPLITTER 5-900 MHZ CAT# TWS-2 \$1.00 each



3 WAY SPLITTER 5-900 MHZ CAT# TWS-3 \$1.50 each



4 WAY SPLITTER *SPECIAL!!!* 5-900 MHZ **CAT# FWS-4** \$1.00 each 10 for 85¢ ea. • 100 for 65¢ ea.

	BNC	CABL	ES			IO / POV
			-			PLUGS
50	OHM, RG	1		F		RCA I
<u>length</u> 3 foot	<u>CAT#</u> CBL-27 CBL-28	<u>each</u> 2.50 3.25	<u>10</u> 2.00 2.75	<u>100</u> 1.75 2.25		CAT# RED PLAST PPRP-R
15 foot 25 foot	CBL-29	4.25 6.50 8.65	3.75 6.00 8.30	3.25 5.20 7.50		BLACK PLA PPRP-B
	OHM, RG				-1=	SHIELDED, MPRP
		1				RCA .
6 foot	<u>CAT#</u> CBL-30 CBL-35	<u>1-9</u> 3.25 5.50	<u>10-99</u> 2.75 5.00	<u>100+</u> 2.25 4.25		CAT# SINGLE HC
	UHF CC		TOPS		Jea.	(threads from RCMJ
	CAT#	<u>1-9</u>	<u>10-99</u>	100+	-	IN-LINE RE
	<u>PL-259 PL</u> PL-259	<u>.UG</u>	.90	.80		PIRP-R
		for RG-5 .30	i8 cable (Fit .25	s PL-259) .20		IN-LINE BL/ PIRP-B
•	<u>REDUCER</u> UG-176		i9 cable (Fit .35	s PL-259) .30		IN-LINE ME MIRJ
	MALE CO		PL-258 1.25	.90		With N.C. sv RCJ-65
	<u>SO-239 CI</u> SO-239			.80	02.	RIGHT ANG JACK. Mour Yellow inser RCJ-6Y
2	DI -250 EX	TENOIO				
	<u>FL-235 LA</u>	TENSIO	N CABLE	-		3 5mm
3				Ċ		3.5mm CAT#
	10' RG-58	J coax ca end, fema	able with P ale on other			3.5mm CAT# MONO JAC 6mm diamet MMJ
	10' RG-580 male one e CB-336	J coax ca end, fema	able with P ale on other 2.00	r end.		CAT# MONO JAC 6mm diamet MMJ 3.5MM STE
	10' RG-580 male one e CB-336 AD, <u>CAT#</u>	J coax ca end, fema 2.25 APTER <u>1-9</u>	able with P ale on other 2.00	r end.		CAT# MONO JAC 6mm diamet MMJ
	10' RG-58 male one e CB-336	J coax ca end, fema 2.25 APTER <u>1-9</u>	able with P ale on other 2.00	r end. 1.65		CAT# MONO JAC 6mm diamet MMJ 3.5MM STE threaded bu
	10' RG-58 male one e CB-336 AD, CAT# F FEMAL	J coax ca end, fema 2.25 APTER <u>1-9</u> .E to RCA .75	able with P ale on other 2.00 RS <u>10-99</u> A MALE .65	r end. 1.65 <u>100+</u>		CAT# MONO JAC 6mm diamet MMJ 3.5MM STE threaded bu SMJ-2 STEREO 3.3
	10' RG-588 male one of CB-336 AD. CAT# F FEMAL F-RCA F FEMAL	J coax ca end, fema 2.25 APTER E to RC, .75 .E to BN(1.30	able with P ale on other 2.00 2S <u>10-99</u> A MALE .65 C MALE 1.10	r end. 1.65 <u>100+</u> .50		CAT# MONO JAC 6mm diamed MMJ 3.5MM STE threaded bu SMJ-2 STEREO 3.1 Two normall when plug is threaded bu wrapped and SMJ-6
	10' RG-580 male one of CB-336 AD. CAT# F FEMAL F-RCA F FEMAL F-BNC RCA FEM RCA-F	J coax ca end, fema 2.25 APTER E to RCr .75 E to BNC 1.30 MALE to 1.00 MALE to	able with P ale on other 2.00 2S A MALE .65 C MALE 1.10 F MALE	r end. 1.65 <u>100+</u> .50 .90 .60		CAT# MONO JAC 6mm diamet MMJ 3.5MM STE threaded bu SMJ-2 STEREO 3.1 Two normall when plug is threaded bu wrapped and SMJ-6 MONO PLA MJI
	10' RG-580 male one of CB-336 AD. CAT# F FEMAL F-RCA F FEMAL F-RCA RCA FEM RCA FEM RCA FEM RCA FEM	J coax ca and, fema 2.25 APTER 1-9 .E to RC, .75 .E to BNO 1.30 MALE to 1 0 MALE to 1 C .80 MALE to 1	able with P ale on other 2.00 RS A MALE .65 C MALE 1.10 F MALE .80 BNC MALE	r end. 1.65 <u>100+</u> .50 .90 .60 .55		CAT# MONO JAC 6mm diamet MMJ 3.5MM STE threaded bu SMJ-2 STEREO 3.1 Two normall when plug is threaded bu wrapped and SMJ-6 MONO PLA MJI STEREO PL SJI
	10' RG-58 male one e CB-336 AD, CAT# F FEMAL F-RCA F FEMAL F-BNC RCA FEN RCA FEN RCA FEN RCA FEN RCA FEN	J coax ca end, fema 2.25 APTER E to RC, .75 E to BN(1.30 MALE to RC 1.30 MALE to RC 1.30 MALE to RC 1.30 MALE to RC 1.00	Able with P ale on other 2.00 A MALE .65 C MALE 1.10 F MALE .80 BNC MALE .70 BNC MALE 1.25	r end. 1.65 <u>100+</u> .50 .90 .60 .55		CAT# MONO JAC 6mm diamet MMJ 3.5MM STE threaded bu SMJ-2 STEREO 3.1 Two normall when plug is threaded bu wrapped and SMJ-6 MONO PLA MJI STEREO PL SJI 3.5mm GAT#
	10' RG-580 male one of CB-336 AD CAT# F FEMAL F-RCA F FEMAL F-RCA F FEMAL F-BNC RCA FEM RCA FEM RCA-FEM RCA-BN UHF FEM UHF FEM UHF FEM	J coax ca end, fema 2.25 APTER 1-9 .E to RC, .75 .E to BNG 1.30 MALE to 1 C .80 MALE to 1 C 1.80 MALE to 1 C 1.80 MALE to 1 C 1.50	Able with P ale on other 2.00 S 10-99 A MALE .65 C MALE 1.10 F MALE .80 BNC MALE .70 BNC MALE 1.25 F MALE	r end. 1.65 <u>100+</u> .50 .90 .60 .55 1.20 1.00		CAT# MONO JAC 6mm diamed MMJ 3.5MM STE threaded bu SMJ-2 STEREO 3.1 Two normall when plug is threaded bu wrapped and SMJ-6 MONO PLA MJI STEREO PL SJI 3.5mm CAT# MONO, PLA MDNO, PLA
	10' RG-58 male one of CB-336 AD. CAT# F FEMAL F-RCA F FEMAL F-BNC RCA FEN RCA FEN RCA-F RCA-F RCA-F NCFEN BNC FEN BNC FEN BNC FEN BNC FEN	J coax ca end, fema 2.25 APTER E to RC, .75 E to BNC 1.30 MALE to 1 C 1.80 MALE to 1 C 1.80 MALE to 1.50 MALE to 1.50 MALE to 1.50 MALE to 1.50 MALE to 1.50	Able with P ale on other 2.00 S 10-99 A MALE .65 C MALE 1.10 F MALE .80 BNC MALE 1.25 F MALE 1.25 F MALE 1.25 RCA MALE	r end. 1.65 <u>100+</u> .50 .90 .60 .55 1.20 1.00 .60		CAT# MONO JAC 6mm diamet MMJ 3.5MM STE threaded bu SMJ-2 STEREO 3.1 Two normall when plug is threaded bu wrapped and SMJ-6 MONO PLA MJI STEREO PL SJI 3.5mm CAT# MONO, PLA PMP STEREO, PLA STEREO, PLA
	10' RG-58 male one of CB-336 AD, CAT# F FEMAL F-RCA F FEMAL F-RCA F FEMAL F-BNC RCA FEN RCA FEN RCA-FEN RCA-FEN UHF FEN UHF FEN UHF FEN UHF FEN BNC FEN BNC FEN BNC FEN BNC FEN	J coax ca and, fema 2.25 APTER 1-9 Le to RC, .75 Le to BNG 1.30 MALE to 1 C 1.80 MALE to 1 C 1.80	Able with P ale on other 2.00 RS 10-99 A MALE .65 C MALE 1.10 F MALE .80 BNC MALE 1.25 F MALE 1.25 F MALE 1.25 RCA MALE .80 UHF MALE	r end. 1.65 <u>100+</u> .50 .90 .60 .55 1.20 1.00 .60 .60 1.40		CAT# MONO JAC 6mm diamet MMJ 3.5MM STE threaded bu SMJ-2 STEREO 3.3 Two normall when plug is threaded bu wrapped and SMJ-6 MONO PLA MJI STEREO PL SJI 3.5mm CAT# MONO, PLA PMP

AUDIO / POWER / SIGNAL PLUGS & JACKS

RCA PLUGS						
	CAT# RED PLAS			<u>100+</u>		
	PPRP-R BLACK PLA	.50 ASTIC HAI	.45 NDLE	.35		
	PPRP-B SHIELDED.	.50 METAI	.45	.35		
	MPRP	.85	.75	.50		

RCA JACKS

RCA JACKS						
	CAT# SINGLE HO (threads from		<u>10-99</u> SSIS MOL	<u>100+</u> JNT		
June	RCMJ	.40	.35	.25		
	in-line rei Pirp-r	D PLAST .50	IC .45	.35		
	IN-LINE BLA PIRP-B	ACK PLAS .65	STIC .55	.40		
	IN-LINE ME MIRJ	TAL .80	.70	.50		
	With N.C. sv RCJ-65	vitch. Plai .20	n bushing .15	j. .10		
	RIGHT ANG JACK. Mour	nting legs				
	Yellow inser RCJ-6Y	t. .10	.09	.06		
	3.5mm	JACKS	6			
	CAT# MONO JAC	<u>1-9</u> K Two-co	<u>10-99</u>	<u>100+</u>		
ġ.	6mm diamet			g. .50		
	3.5MM STE threaded but SMJ-2					
	STEREO 3. Two normall when plug is threaded but	y-closed s inserted. shing. PC	shunts - o . 6mm dia : leads - c	pen meter		
	wrapped and SMJ-6	d soldered .85	d. .75	.50		
	Mono pla: Mji	STIC, IN-I .90	LINE .80	.60		
0	STEREO PL SJI	ASTIC, II 1.00	N-LINE .90	.70		
	3.5mm	PLUGS				
	CAT#	<u>1-9</u>	<u>10-99</u>	<u>100+</u>		
	MONO, PLA PMP	STIC .85	.75	.60		
	MONO, MET MMP	TAL 1.00	.85	.70		
- the	STEREO, PI	LASTIC 1.25	1.15	.95		
	STEREO, M	ETAL 1.50	1.35	1.25		

	1/4" PLU	JGS			RCA	/ PHONE PLUG
and the second	MONO, PLAST	<u>1-9</u> C 1.00	<u>10-99</u> .85	<u>100+</u> .60		RCA jack to RCA j CAT# AD-3 75¢
	MONO, METAL	1.35	1.20	.95	e e	Dual RCA Jack Co CAT# AD-203 \$
et	MONO, METAL MPH-5	- thick 4.00	wall 3.80		-	RCA plug to RCA CAT# AD-33 75
	MONO, METAL solder terminals MPH-11		ated plug 1.35	and	-	RIGHT-ANGLE R Gold-plated. CA 10 for 85¢ each •
an an	MONO, METAL MPH-13	, Right 2.50	angle		\sim	RCA plug
	STEREO, PLAS PHPS	STIC .75	.65	.55		CAT# AL
	STEREO, META MPHS	4L 1.50	1.35	1.10	-	RCA jac two RC. CAT# A
1/4"	JACKS - Re	duce	d Price	s!	69	•••••
	CAT#	<u>1-9</u>	<u>10-99</u>	<u>100+</u>		RCA jack to 3.5m CAT# RCA-3.5
MONO, 2-CO	N.C. switch.					3.5 mm stereo plu
	PHJ-S	1.05	.95	.70	Contraction of the second seco	CAT# ADMP-2
MONO, IN	Plastic PHJ-6	1.25	1.10	.90		3.5 mm mono to 3 CAT # ADMP-4
STEPEO 2	CONDUCTOR W/					2.5mm stereo plug
STEREO, 3-	SPHJ-S	1.20	1.00	.75		CAT# AD-21 \$1
20		1.20	1.00	.10		3.5 mm stereo plu CAT# AD-25 \$
STEREO, IN	-LINE Plastic					1/4" mono jack to
	SPJ-17	1.25	1.10	.90		CAT# 54-421 \$1
BANAN	A JACKS / B	INDIN	IG POS	STS		1/4" mono plug CAT# AD-5 7
	CAT#	<u>each</u>	<u>10</u>	<u>100</u>		1/4" stereo plug
0	RED PLASTIC C BJL-R	HASSI .60	S MOUN .50	Г .35		CAT# ADMP-1 3.5mm mono pl
V	BLACK PLASTIC BJL-B	CHAS .60	SIS MOU .50	JNT .35		CAT# AD-26
	Heavy-duty, gold ing posts. No lov through a non-co	ver inst	lator. Mu	st fasten	CAT# CB-52	9 plug to 2 RCA jacks \$1.25 each
	CAT#colorBP-BBlackBP-RRed	<u>each</u> 1.10 1.10	<u>10</u> .95 .95	<u>100</u> .70 .70		1/4" stereo CAT# AD-5
	BANANA P	LUGS	S		1/4" mana -1	in to two PCA inclus
	<u>CAT#</u> RED PLASTIC	<u>each</u>	<u>10</u>	<u>100</u>		ug to two RCA jacks \$1.35 each
	BPL-R BLACK PLASTIC	.50 ;	.45	.30		r .
	BPL-B	.50	.45	.30		3.5mm stereo jac CAT# AD-18
	Heavy-duty with	i set s	crew			\$1.25 each
	RED PLASTIC BP-26R	.90	.75			XLR ADAPT
	BLACK PLASTIC BP-26B	.90	.75		• • •	XLR Couple CAT# XLR
	DUAL BANANA I 0.75" plug center for up to 8 gauge	s. 0.15' wire. F	' cable op Red plasti	ening c body.		XLR Couple CAT# XLR
	Color-coded, knu Gold plated. CAT# BP-23	\$3.00 e	-	wo.		XLR Male T CAT# XLR
2.	DUAL BANANA 0.75" spacing. Bl	ack or r		·	«IIII	XLR Femal
0.0	Color Subject to BP-2 1.70		1.50	1.25		\$5.60 \$3
	VISIT OL	IR WI	BSITE	- WW	W.ALLELEC	TRONICS.COM

/ PHONE PLUG ADAPTERS

RCA jack to RCA jack CAT# AD-3 75¢ each

> **Dual RCA Jack Couplers** CAT# AD-203 \$1.50 each

RCA plug to RCA plug CAT# AD-33 75¢ each

RIGHT-ANGLE RCA JACK ADAPTER Gold-plated. CAT# RCA-RT \$1.00 ea. 10 for 85¢ each • 100 for 65¢ each

> RCA plug to two RCA jacks CAT# AD-4 \$1.00 each

RCA jack to two RCA plugs CAT# AD-4M \$1.00 each

RCA jack to 3.5mm mono plug CAT# RCA-3.5 75¢ each

3.5 mm stereo plug to 1/4" stereo jack CAT# ADMP-2 75¢ each

3.5 mm mono to 3.5 mm stereo CAT # ADMP-4 75¢ each

2.5mm stereo plug to 3.5mm stereo jack. CAT# AD-21 \$1.75 each



3.5 mm stereo plug to 2.5 mm stereo jack CAT# AD-25 \$1.00 each

1/4" mono jack to RCA plug CAT# 54-421 \$1.00 each





1/4" stereo plug to 3.5 mm stereo jack CAT# ADMP-1 75¢ each

3.5mm mono plug to 1/4" jack. CAT# AD-26 \$1.00 each



1/4" stereo plug to two RCA plugs CAT# AD-55 \$1.85 each



3.5mm stereo jack to 2 RCA plugs CAT# AD-18 \$1.25 each

XLR ADAPTERS



XLR Coupler Male to Male CAT# XLR-320 \$4.25 each



XLR Male To 1/4 Plug CAT# XLR-340 \$3.75 each



3 PI	IN XLR CONNECTORS	CABLES WITH 1/4" MONO PLUG & JACK		
Ö	CAT# 1.9 10.99 100+ CHASSIS MOUNT FEMALE Metal 1.42" x 1.05" mounting flange. Mounts in 0.94" dia. hole. Solder lugs. MIKE-3CF 2.00 1.75 1.50	6' cable CAT# MCB-6M \$3.50 each 10 for \$3.00 each		
	CHASSIS MOUNT MALEMetal 1.41" x 0.86" mounting flange.Mounts in 0.75" dia. hole.Solder lugs.MIKE-3CM1.751.501.25	15' cable CAT# MCB-15M \$5.00 ea. • 10 for \$4.50 ea. 25' cable 10 for \$4.50 ea.		
	XLR FEMALE RECEPTACLE Neutrik NC3FAH. Horizontal PCB mount. XLR-3FC 0.65 0.50	CAT# MCB-25M \$7.50 ea. • 10 for \$7.00 ea. 5 PIN DIN PLUGS / JACKS 240°		
	XLR MALE RECEPTACLE Neutrik NC3MAH. Horizontal PCB mount. XLR-3MC 0.85 0.65	5-PIN DIN PLUG CAT# DIN-524 \$1.00 each 5-PIN DIN SOCKET CAT# DIN-524C \$1.25 each		
	INLINE XLR CONNECTORS CAT# 1-9 10-99 100+ IN-LINE FEMALE IN-LINE FEMALE IN-LINE FEMALE IN-LINE FEMALE	5 PIN DIN PLUGS / JACKS 180° Switchcraft # 05BL5M.		
	MIKE-3F 2.50 2.35 2.00 IN-LINE MALE MIKE-3M 2.00 1.80 1.60	CAT# SWC-5BL \$3.50 each CAT# DIN-5 \$1.25 each 10 for \$1.10 each		
	3-Pole, female. Neutrik # NC3FX XLR-3FX 3.00 2.85 2.65 3-Pole, female, black. Neutrik # NC3FX-B XLR-3FXB 3.75 3.60 3.35	CAT# each 10 100+ 5 PIN CHASSIS MOUNT DIN-5C 1.60 1.45 1.25		
MICROP	HONE EXTENSION CABLES	5 PIN DIN JACK, PC MT. DIN-5PC .50 .45 .30		
		8 PIN MATING CONNECTORS		
3-pin XLR plug to 3-pin XLR jack. Nickel-plated zinc-alloy connectors. Fully Shielded low-loss cable. Flexible black rubber jacket. 20' Cable CAT# CB-298 \$8.50 7.50 60' Cable CAT# CB-298 \$16.75 MICROPHONE CABLE XLR - 1/4" 8-contact male in-line connector fits cables up to 0.25" diameter. Chassis-mount female connector with threaded bushing. Mounts in 0.58" diameter hole. Solder-cup style terminals. The mating connectors have a positioning key way and screw securely together. CAT# CON-800 \$5.75 each				
16', good-gualit	y, fully-shielded low-loss cables.	2.5MM PLUGS		
Flexible black ja	icket. 1/4" phone plug to XLR female. 9 \$4.75 each • 10 for \$4.50 each	MONO, PLASTIC PMMP .40 .35 .30		
Neutrik # NCJ of two connect and a switchin	XLR & 1/4" STEREO JACK 9FI-H. Space saving combination tors, 3-pole XLR receptacle g 1/4" stereo phone jack, nousing, XLR latch. Rear	MONO PLUG 14' CABLE 22 AWG stranded wire • • • • • • • • • • • • • • • • • • •		
panel mount, 2	29mm dia. hole. Horizontal	2.5MM JACKS		
	AT# XLR-14J • 10 for \$1.60 each	Mono. 4mm (0.15") threaded bushing. Normally-closed shunt (shunt		
CABLES WITH 1/4" PHONE PLUGS		opens when plug is inserted). Solder/pc terminals. CAT# MJS-2 75¢ each		
PLUGS BO 10' SPECIAL CAT# MCB-1	TH ENDS	10 for 65¢ each • 100 for 50¢ each Mono. 4mm (0.15") threaded bushing. Normally-closed shunt (shunt opens when plug		
BOTH END	4" PLUGS	is inserted). Solder terminals. CAT# MJS-3 75¢ each 10 for 65¢ each • 100 for 50¢ each		
15' CABLE	6 S \$4.00 ea. • 10 for \$3.60 ea.	For 3-conductor stereo, 2.5mm sub-mini phone plug. 5mm diameter, plain, non-threaded bushing. PC leads.		
CAT# MCB- ²	15S \$6.00 ea. • 10 for \$5.40 ea.	CAT# MJS-1 50¢ each • 100 for 40¢ each		
44	NO NASSLE			

SHIELDED	AUDIO	CABLES

SINGLE	RCA	CABLES	m

Shielded one conductor audio cable with RCA style phone plug both ends.

	CAT#	<u>1-9</u>	<u>10-99</u>	100+
<u>6 feet</u>	ACB-6	1.10	1.00	.70
<u>10 feet</u>	ACB-10	1.30	1.15	.85
25 feet	ACB-25	2.25	2.00	1.65

DUAL SHIELDED RCA CABLES

Shielded cables with molded color coded RCA p plugs both ends. Used for stereo/audio hook-up.

CAT#

DCB-36

3 FT

		Z
A pin		
or	-	15 Cal
<u>1-9</u>	10	100
\$1.00	85¢	75¢
\$1.30	\$1.10	85¢
\$2.50	\$2.00	\$1.50

6 FT	DCB-72	\$1.30	\$1.10	85¢
12 FT	DCB-144	\$2.50	\$2.00	\$1.50
25 FT	DCB-300	\$3.50	\$3.00	\$2.60
50 FT	DCB-600	\$7.35	\$7.00	\$6.75

3.5MM STEREO PLUG TO TWO RCA PLUGS

Commonly used to connect portable audio players to home stereos and to connect sneakers to computers

CAT#	<u>1-9</u>	<u>10</u>	<u>100</u>			
CB-42	1.50	1.25	1.00			
CB-390	1.75	1.55	1.30			
CB-406	2.25	2.05	1.55			
	<u>сат#</u> СВ-42 СВ-390	CAT# 1-9 CB-42 1.50 CB-390 1.75	CAT# 1.9 10 CB-42 1.50 1.25 CB-390 1.75 1.55			

CABLES W/ 3.5MM STEREO PLUGS

Ideal for connecting iPods, MP3 players and other audio devices. Molded 3.5mm stereo phone plugs at each end.

3.5MM STEREO PLUGS BOTH ENDS

			-	=====
	CAT#	<u>1-9</u>	<u>10</u>	<u>100</u>
1 foot	CB-424	\$1.20	\$1.05	90¢
6 foot	CB-121	\$1.50	\$1.25	\$1.05
12 foot	CB-389	\$2.00	\$1.65	\$1.35

24" DUAL-SHIELDED CABLE W/ 3.5MM PHONE PLUGS **CAT# CB-461**



3' CABLE W/ 3.5MM STEREO PHONE PLUG 2-conductors w/ shield. Right-angle 3.5mm stereo phone plug. CAT# CB-223 \$1.00 each 10 for 85¢ each

6' CABLE W/ 3.5MM STEREO PHONE PLUG 3-conductor 24 AWG cable. Right-angle 3.5mm

stereo phone plug. Strain-relief at end. \$1.25 ea. • 10 for \$1.00 ea CAT# CB-220

EXTENSION CORDS, 3.5MM STEREO PHONE PLUGS

10' 3.5MM EXT. CABLE W/ 1/4" PLUG ADAPTER CAT# CB-423 \$2.50 each 10 for \$2.25 each

3.5mm stereo plug to 3.5mm stereo jack. and 6' CABLE CAT# CB-333 \$1.60 each 10 for \$1.45 each • 100 for \$1.25 each CAT# CB-371 \$2.00 each 10' CABLE 10 for \$1.80 each 100 for \$1.60 each 25' CABLE CAT# CB-188 \$3.50 each 10' COILED EXTENSION CORD CAT # CB-185 \$2.65 each 10 for \$2.20 each 100 for \$1.80 each CUM Y-CABLE, 6 INCH 3.5mm stereo phone plug to two 3.5mm stereo phone jacks. CAT# AD-54 \$1.35 each

CABLES W/ 3.5MM MONO PLUGS

3.5 MM MONO PLUG BOTH ENDS

Shielded cables with molded plugs.

		1999	
CAT#	<u>1-9</u>	<u>10</u>	<u>100</u>
CB-352	1.00	.90	.65
CB-3561	1.25	1.00	.80
CB-3510	1.50	1.25	.95
	CB-352 CB-3561	CB-352 1.00 CB-3561 1.25	CB-352 1.00 .90 CB-3561 1.25 1.00

3.5 MM MONO PLUG TO RCA PLUG

6 foot shielded cable. CAT# CB-364 \$1.55 each 10 for \$1.40 each • 100 for \$1.05 each



Sirius SV3/SV4 radio. 3' cable with antenna bead connected to 3.5mm mono plug. Only the shield is connected to the plug tip. Center conductor is not connected. CAT# CB-145 2 for \$1.00 • 100 for 35¢ each

CO-AX POWER PLUGS & JACKS

CO-AX POWER PLUGS

		<u>cat#</u> 2.1mm I.D. – 5.5		<u>10-99</u>	<u>100+</u>
		DCSID	1.00	.90	.85
_		2.5mm I.D. – 5.5 DCLID	mm O.D. 1.00	.90	.85
		1.7mm I.D. – 5.0 DCP-17	mm O.D. 1.00	.90	.85
a.		1.3mm I.D. – 3.5 DCP-13	mm O.D. 1.00	.90	.85
	color-coded lea	ower jack with 1 ads. 2.1mm id x AT# CB-209	0	each	
¢		ug, 2.1mm id x color-coded lea 3 \$1.65 eacl			_



MULTI-PIN CONNECTORS

MATING CONNECTORS

Δ	-	1	
11			100
Mal	o / fomalo onde	connected with	10" wires

wate /	iemale enus	connec	leu with	IU WIICS
<u># of Cond.</u>	CAT#	<u>1-9</u>	<u>10-99</u>	<u>100</u>
2	CON-20	2.00	1.75	1.30
3	CON-30	2.40	2.10	1.50
4	CON-40	2.50	2.25	1.60
6	CON-60	2.65	2.40	2.00
9	CON-90	3.00	2.75	2.20

LOCKING CONNECTORS

Mating pairs of polarized multi-pin connectors with wire leads. Pins on 2.5mm centers. Black nylon housing



with release on male side of connector. Female side of connector can be snap-mounted into a rectangular chassis mounting hole. 12" color-coded leads, 22 AWG stranded wire on both connectors.

CAT# CON-240 2-CONDUCTOR \$1.35 ea. • 10 for \$1.20 ea. • 100 for 95¢ ea.

CAT# CON-340 3-CONDUCTOR

\$1.45 ea. • 10 for \$1.30 ea. • 100 for \$1.05 ea.

CAT# CON-440 4-CONDUCTOR \$2.10 ea. • 10 for \$ 1.85 ea. • 100 for \$1.35 ea.

CAT# CON-540 5-CONDUCTOR

\$2.40 ea. • 10 for \$2.10 ea. • 100 for \$1.85 ea.

CAT# CON-640 6-CONDUCTOR \$2.60 ea. • 10 for \$2.20 ea. • 100 for \$1.85 ea.

JUMPERS W/ MATING HEADERS

3" jumpers with matching pc mount, snap-lock headers on both ends. 0.1" pin spacing. Color-coded leads. 24 AWG. 5 pin CAT# CON-55 \$1.50 per set	Machine contact, strip. 0.10" matrix. Snappable to smaller lengths. 48 Contact (2 x 2 CAT# DHP-48
8 pin CAT # CON-88 \$2.40 per set	16-PIN IN-L
0.1" SNAPPABLE HEADERS	16-contact female h 0.1" spacing. Accept
.025" square header pins on 0.1" centers DOUBLE ROW	approximately 0.2" 1.41" x 0.30" x 0.32 CAT# SKT-16 60 PIN (2)
DESCRIPTION CAT# 1-9 10-99 100+ 2 X 6 straight DHS-6 25¢ 20¢ 15¢ 2 X 14 straight DHS-14 45¢ 40¢ 25¢ 2 x 14 right-angle DHR-14 45¢ 40¢ 30¢ 2 x 16 right-angle DHR-16 50¢ 45¢ 35¢ 2 X 40 straight DHS-40 \$1.50 \$1.35 \$1.20	Samtec # CES-130-01-T-D. Dual row low-profi socket strip. Pins o CAT# DSP-60 10 for 95¢ each
SINGLE ROW	SHROUDED
DESCRIPTION CAT# 1-9 10-99 100+ 32 pin straight SHS-32 .45 .40 .30 40 pin straight SHS-40 .85 .75 .60 40 pin straight SHR-40 1.50 1.32 1.20	Mates with dual ro pins on 0.1" cente way in center for p Gold-plated pins.
SHORTING JUMPERS FOR HEADERS Designed for use with above double and single row headers. Used to short out adjoining posts on headers. CAT# 1-9 10-99 100+ SJ-1 .10 .08 .07	14 PIN (2 X 7) HE 20 PIN (2 X 10) H 40 PIN (2 X 20) H 50 PIN (2 X 25) H 3 for \$1.0

PRE-WIRED CONNECTORS WITH MATING HEADERS

Nylon connectors and mating pc mount, snap-lock headers. Female socket connector is



pre-wired with 11" long color-coded stranded wire.				
CAT#	<u>pins</u>	AWG	spacing	price
CON-232	2	18	0.156"	75¢ per set
CON-242	2	22	0.1"	70¢ per set
CON-233	3	18	0.156"	\$1.20 per set
CON-243	3	22	0.1"	\$1.00 per set
CON-234	4	18	0.156"	\$1.50 per set
CON-244	4	22	0.1"	\$1.30 per set
CON-236	6	18	0.156"	\$2.25 per set
CON-238	8	18	0.156"	\$3.00 per set
CON-2310	10	18	0.156"	\$3.65 per set
CON-2410	10	22	0.1"	\$2.90 per set

SNAPPABLE SIP SOCKETS,

0.10" CENTERS

Single-row, machinecontact socket. Pins on 0.10" centers. Snappable can be cut to shorter lengths.

10 for \$1 05 ea

 30-PIN
 CAT# SIP-30
 \$1.20 ea.
 10 for \$1.05 ea.

 40-PIN
 CAT# SIP-40
 \$2.35 ea.
 10 for \$2.05 ea.

PEEL-A-WAY® MACHINE PIN SOCKET STRIP

Advanced Interconnection KSS-80.

CAT# PSIP-80 \$2.50 each

48-PIN DUAL-ROW MACHINED PIN SOCKET

dual-row socket 00000000000 24). \$2.45 ea. • 100 for \$2.15 ea. **LINE SOCKET HEADER** header pts pins of 11111111111111 length. 2" high. 2 for \$1.00 X 30) IN-LINE SOCKET ile pc mount on 0.1" x 0.1" centers. \$1.00 each 100 for 80¢ each DUAL ROW HEADERS ow socket connectors, ers. Keypolarity.

old-plated plins. I O moun	
4 PIN (2 X 7) HEADER	CAT# STH-14
0 PIN (2 X 10) HEADER	CAT# STH-201
0 PIN (2 X 20) HEADER	CAT# STH-401
0 PIN (2 X 25) HEADER	CAT# STH-501
3 for \$1.00 • 10	0 for 20¢ each

PC mount



IPOD, IPAD, IPHONE CABLE, 36"

Standard iPod docking connector one end, USB connector on the other end. 36" cable. CAT# IPD-36 \$5.00 each

USB EXTENSION

CABLES USB 2.0 A Male – Female extension cables.





extension cables. 3' CAT# CB-407 6' CAT# CB-408

10'

CAT# CB-407 \$2.75 each CAT# CB-408 \$3.00 each CAT# CB-409 \$3.25 each

30" USB 1.1 TO SERIAL (DB-9) ADAPTER CABLE

The USB to Serial Adapter provides an external serial DB- 9 male. Standard USB-A plug on other end. 30" cable. CAT# CB-394 \$17.00 each



USB-B JACK, SURFACE MOUNT

Wieson. Shielded jack for USB-B plug. Surface mount. 1mm pin spacing. CAT# USB-8 \$1.00 each



DUAL USB JACK, PC MOUNT

Type-A, dual USB jack for pc board. 8 pc pins with 4 bend-tabs for stability. **CAT# USB-6** 85¢ each 10 for 70¢ each • 100 for 60¢ each



USB MINI TO USB MICRO CONVERTER

USB mini female to USB micro male. Convert mini-USB to micro-USB. For charging only. Data pins not connected. CAT# AD-61 \$1.75 each

USB 2.0 ACTIVE REPEATER CABLES

An active device allowing you to extend other USB cables. Recommended if you're using a USB device at a distance of more than 15ft.



 16'
 CAT# CB-155

 30'
 CAT# CB-153

 50'
 CAT# CB-157

 80'
 CAT# CB-158

\$23.55 each \$31.95 each \$39.95 each

SD CARD READER/WRITER, USB 2.0

If your computer doesn't have a slot for SD memory cards, this is a simple solution. Plug it into a USB port, and you're ready to go. (Memory card not included) CAT# SDR-1 \$4.00 each

25' DB-9 male to DB-9 female.

CAT# CB-405 \$7.95 each

50' HI-TEMP PLENUM CABLE

Clear Teflon outer jacket, with Teflon insulated individual conductors. DB-9P male connectors on each end with metal back shells.

CAT# CB-81 \$16.85 each

SERIAL ATA (SATA) CABLE

180 degree. 7-conductor. 20" leads. **CAT# CB-156** \$2.15 each 10 for \$1.95 each

SATA POWER CABLE

Serial ATA (SATA) cable with 4-pin

molex power connector and standard SATA connector. 4" leads. **CAT# CB-161** \$1.65 each 10 for \$1.45 each

PHILIPS DSL FILTER

Philips# PH60861. Eliminate interference between your DSL line and analog telephone lines. Works with all standard phones, fax and answering machines. CAT# FTR-861 \$2.00 each • 10 for \$1.75 each

ORDER TOLL FREE 1-800-826-5432

MINI AND MICRO USB CABLES





USB-A

Used with many digital cameras, cellphones and PDAs for charging and exchanging information between the device and a personal computer.

MINI-USB (B) TO USB-A, 3' CABLE CAT# CB-422 \$2.25 each

MINI-USB (B) TO USB-A, 5' CABLE **CAT# CB-378** \$2.95 each 10 for \$2.75 each • 100 for \$2.25 each

MICRO-USB (B) TO USB-A, 6' CABLE CAT# CB-416 \$3.25 each

MICRO-USB (B) TO USB-A, 10' CABLE CAT# CB-417 \$3.75 each

Y-CABLE WITH MINI-USB (B) AND 2 STANDARD USB-A 7" and 15" leads

CAT# CB-419 \$2.95 each



6' DB-9 Male to DB-9 Female extension cord. **CAT# CB-397** \$4.00 each



INTEGRATED CIRCUITS

VOLTAGE REGULATORS

POSITIVE REGULATORS

CAT#	DESCRIPTION	CASE	<u>each</u>
7805T	+5 VOLT 1 AMP (LM340T-5)	TO-220	.50
TL780-05	+5V 1.5 WATT	TO-220	.70
78M05	+5 VOLT 500 MA (1/2 A)	TO-220	.50
7806T	+6 VOLT 1 AMP (LM340T-6)	TO-220	.50
7808T	+8 VOLT 1 AMP (LM340T-8)	TO-220	.50
7812T	+12 VOLT 1 AMP (LM340T-12)	TO-220	.50
7815T	+15 VOLT 1 AMP (LM340T-15)	TO-220	.50
78L05	+5 VOLT 100 MA	TO-92	.40
78L12	+12 VOLT 100 MA	TO-92	.40
S81250	+5 VOLT 100 MA	TO-92	.25

NEGATIVE REGULATORS

7905T	-5 VOLT 1 AMP (LM320T-5)	TO-220	.50
7908T	-8 VOLT 1 AMP	TO-220	.65
7912T	-12 VOLT 1 AMP (LM320T-12)	TO-220	.50

ADJUSTABLE REGULATORS

LM317T	ADJ. POSITIVE (1.2-37V)	TO-220	.70
LM317LZ	ADJ. POSITIVE (1.2-37V)	TO-92	.65
LM337T	ADJ. NEGATIVE (1.2-37V)	TO-220	1.50
LM350T	ADJ. POSITIVE 3 AMP	TO-220	3.50

LOGIC

CAT#	DESCRIPTION		
		pins	<u>each</u>
74HC86	QUAD 2-IN EXCL. OR GATE	(14)	.60
74HC126	QUAD 3-STATE BUS BUFFER	(14)	.25
74HC573	OCT D-TYPE LATCH	(20)	.45
74HC574	OCT D FLIP FLOP	(20)	.45
4001	QUAD NOR GATE	(14)	.35
4013	FLIP FLOP	(14)	.35
4017	DECADE COUNTER / DIVIDER	(16)	.60
MC14049	HEX INVERTING BUFFER	(16)	.40

LOGIC - SURFACE MOUNT

<u>CAT#</u> 74AHC574	DESCRIPTION PWR	<u>pins</u>	<u>each</u>
	TRI STATE OCTAL FLIP-FLOP	(20)	.50
74HC08DR	QUAD 2-IN POS-AND GATES	(14)	.40

LINEAR SERIES

CAT#	DESCRIPTION	pins	<u>each</u>
TLO82	J-FET IN DUAL OP AMP	(8)	.70
ADM202EAN		(16)	.75
LM311	COMPARATOR	(8)	.50
LM324	QUAD OP AMP	(14)	.50
LM339	QUAD COMP	(14)	
LF353	DUAL BI-FET OP AMP	(8)	.50
LM358	DUAL OP AMP	(8)	.30
LM380	2 WATT AUDIO AMP	(14)	
LM386N	AUDIO AMP .25 W	(8)	1.25
LM393	LOW POWER DUAL COMP	(8)	.30
LM555	TIMER	(8)	.75
ICM7555	CMOS TIMER "555"	(8)	1.00
LM556	DUAL (555) TIMER	(14)	.45
LM567	TONE DECODER	(8)	.90
LM741	OP AMP (MC1741)	(8)	.90
MC1458	DUAL OP AMP (MC4558)	(8)	.50
MC14568	PHASE COMPARATOR &		
	PROGRAM. COUNTER	(16)	.50
LM3914	BARGRAPH DIS. DRIVER	(18)	2.75
ULN2003	DARLINGTON ARRAY	(16)	.75
NE5532	DUAL LOW-NOISE OP AMP	(8)	.32
75451	DUAL PERIP. AND DRIVER	(8)	.40
75452	DUAL PERIP. NAND DR.	(8)	.40
75453	DUAL PERIP. OR DRIVER	(8)	.40
LINE	EAR - SURFACE MOU	JNT	
CAT#	DESCRIPTION	pins	each
TL082C	DUAL OP AMP	(8)	.25
LM311D	COMPARATOR	(8)	.50

QUAD COMPARATOR

HI-SPEED DIFF. COMP.

J-FET QUAD OP AMP

LOW NOISE DUAL OP-AMP

DUAL LOW NOISE OP-AMP

LM339D

LM361M

MC33079D

NE5532D

TL084C

50

(14)

(14)

(14)

(14)

(8)

П

30

1.20

.35

.32

.20

ICS FOR SPECIALIZED APPLICATIONS

Specifications / hook-up sheets available on our website

FAHRENHEIT TEMPERATURE SENSOR

National Semiconductor # LM34DZ. Precision temperature sensor. Voltage is linearly proportional to the Fahrenheit temp. Operates on 5-30 Vdc. TO-92 package. CAT# LM34DZ \$3.30 each

LIQUID LEVEL ALARM

ST Microelectronics# L4620. Designed for liquid level control in automotive applications. 8-pin DIP. CAT# L4620 45¢ ea. • 50 for 30¢ ea.

30 VDC REVERSIBLE MOTOR DRIVER



Rohm # B6886N. Drive small DC motors. 6.5 - 28 Vdc supply voltage. Two control logic inputs allow switching of four output states, forward, reverse, stop and braking. Interfaces with TTL and CMOS devices. SIP-10 package. CAT# BA6886N \$2.00 each

22CV10AP PEEL™ Programmable Electrically



Erasable Logic (PEEL™) CMOS device. 15nS. 24 pin (narrow) DIP package.

CAT# 22CV10AP \$2.25 \$1.25 each

LCD DRIVER

National Semiconductor # MM145453V. Can drive 4 1/2 digit, 7-segment display with minimal interface between the display and data source. Drives up to 33 LCD segments and can be paralleled to increase this number. REDUCED 44-pin, surface-mount PLCC package. CAT# MM145453V -\$3.00 \$2.00 each



IC SOCKETS

SOLDERTAIL				
<u>PINS</u>	CAT#	<u>1-49</u>	<u>50-99</u>	<u>100+</u>
6	ICS-6	.20	.15	.10 REAL REAL
8	ICS-8	.20	.15	.10
14	ICS-14	.20	.15	.10
16	ICS-16	.25	.20	.15
18	ICS-18	.30	.25	.20
20	ICS-20	.40	.35	.30
22	ICS-22	.40	.35	.30
	Spec	ial Rec	luced Pr	ice!
24	ICS-24	.15	.12	.10
	1000	for \$50	.00 (5¢ e	ach)
28	ICS-28	.45	.40	.35
40	ICS-40	.55	.50	.45
48	ICS-48	.65	.60	.50

HIGH RELIABLITY (MACHINED PINS) SOLDERTAIL

TTTT	

<u>PINS</u>	<u>CAT#</u>	1	<u>10</u>	<u>100+</u>
8	HRICS-8	.50	.45	.35
14	HRICS-14	.65	.60	.50
16	HRICS-16	.75	.70	.60
22	HRICS-22	.50	.45	.35
32	HRICS-32	.95	.85	.70
40	HRICS-40	1.20	1.15	1.05

24-PIN ZIF SOCKET

allcorp@allcorp.com

3M Textool #224-3344. Zero Insertion Force (ZIF) test and



FULL WAVE	TRANSISTORS			
BRIDGE RECTIFIERS	CAT# Description Each 100			
MINI-DIPS Fits 8-pin DIP socket.	D33D30 NPN, TO-92 5 for \$1.00 16 D45H5 PNP, TO-220 .75 .65			
	D45H5 PNP, TO-220 .75 .65 2SC1775A NPN, TO-92 5 for \$1.00 .16			
35¢ each • 100 for 20¢ each	PN2222A NPN, TO-92 5 for .80 .15 2N2222A NPN, TO-18 2 for 1.00 .40			
	2N2222A NPN, 10-18 2 for 1.00 .40 PN2905 PNP, TO-92 10 for .50 .04			
1 AMP 100 PIV CAT# FWB-11 35¢ each • 100 for 20¢ each	2N2906 PNP, TO-18 2 for \$1.00 .35 PN2907 PNP, TO-92 5 for .75 .10			
	2N3055 NPN, TO-3 1.25 .95			
1 AMP 600V CAT# FWB-16	PN3646 NPN, TO-92 5 for .75 .08			
40¢ each • 100 for 30¢ each	2N3904 NPN, TO-92 5 for .75 .13 2N3906 PNP, TO-92 5 for .75 .13			
1 1/2 AMP BRIDGES	2N4124 NPN, TO-92 5 for .75 .13			
TO-5 case 3/8" dia.	2N4400 NPN, TO-92 5 for .50 .08 2N4401 NPN, TO-92 5 for .75 .13			
1.5A 200V CAT# FWB-14 40¢ each	2N4403 PNP, TO-92 10 for .80 .05			
1.5A 400V CAT# FWB-15 50¢ each	2SC2352 NPN, TO-92 3 for 1.00 .29 KSP8599 PNP, TO-92 5 for .50 .08			
2 AMP 800 VOLT BRIDGE	MPS8599 PNP, TO-92 5 for .50 .08			
2W08G, round epoxy case.	MPSA43 NPN, TO-92 5 for \$1.00 .16 MPSA55 PNP, TO-92 5 for .75 .10			
CAT# FWB-28 65¢ each	MPSA92 PNP, TO-92 3 for \$1.00 .28			
100 for 50¢ each	TIP30C PNP, 1A 100V, TO-220 4 for \$1.00 .20 TIP31C NPN, 3A 100V, TO220 .45 .35			
	TIP32C PNP, 3A 100V, TO220 .35 .30			
Four leads on 0.2" centers.	TIP35 NPN, 5A 40V, TO220 \$1.25 .90			
Amps Volts CAT# Price 100	TIP42C PNP, 6A 100V, TO220 .45 .30 ZTX651 NPN, 2A, 80V, TO-92 .35 .30			
4 600 FWB-46 2/\$1.00 \$35.00				
6 400 FWB-64 .85 ea \$65.00	PHOTO-DIODES			
25 AMP BRIDGES 1 1/8" square.	Black, side-looking photo diode.			
200 P.I.V. CAT# FWB-252 \$2.50 each	CAT # PD-2 2 for \$ 1.30 • 50 for \$ 25.00			
400 P.I.V. CAT# FWB-254 \$3.00 each 600 P.I.V. CAT# FWB-256 \$3.50 each	QSE773, side-looking photo-diode.			
	CAT# PD-7 2 for \$1.00			
35 AMP BRIDGES 1 1/8" square.	100 for 35ϕ each			
200 P.I.V. CAT# FWB-352 \$2.50 each				
10 for \$22.50 • 100 for \$175.00	Perkin Elmer VTP8651. Two pin dip package. Arrays can be formed by positioning devices			
400 P.I.V. CAT# FWB-354 \$4.00 each 600 P.I.V. CAT# FWB-356 \$4.50 each	side by side. 4.62mm x 4.11mm x 1.07mm deep.			
800 P.I.V. CAT# FWB-358 \$4.30 each	CAT# PD-6 3 for \$1.00 • 100 for 24¢ each			
TRANSISTORS	N-CHANNEL MOSFETS, TO-220			
	BUZ11A 26 Amp, 50 Volt, 0.055 Ohms.			
	With right-angle pre-formed leads.			
	CAT# BUZ11A 75¢ each			
	10 for 65¢ each 100 for 55¢ each			
TO-92 TO-18 TO-220 TO-3	BUZ101S SIPMOS Power Transistor Vds. 55V,			
	22A, 0.06 Ohms CAT# BUZ101S 55¢ each			
J FETS	10 for 50¢ each • 100 for 35¢ each			
J176 P-CHANNEL TO-92	FS7KM 16A 7013, N-Channel Power Mosfet.			
CAT# J176 5 for \$1.00	High speed switching use, 250V 7A.			
TRIAC	CAT# FS7KM 55¢ each 10 for 50¢ each • 100 for 35¢ each			
CAT# AMP VOLT CASE PRICE 10				
Q6015L5 15 600 TO-220 1.60 1.40	IRF734 1.2 Ohms (max.). 450 V (min.).			
BILATERAL TRIGGER (DIAC)	4.9 A (max.). 62 deg C. CAT# IRF734 65¢ each			
CAT # DB-3 28-36 volt 3 for \$1.00 100/\$27.00	10 for 55ϕ each • 100 for 45ϕ each			
PROGRAMMABLE UNIJUNCTION	IRFZ40 50 Amp 50 Volt CAT# IRFZ40			
40 volts, 300 mW. TO-92	\$1.25 each • 10 for \$1.10 each			
CAT# 2N6028 3 for \$1.00 • 100 for 25¢ each	MTP75N03HDL 75Amp 25V power CAT# MTP75N03HDL \$1.75 each			
DARLINGTON TRANSISTORS CAT# Desc Ea 100+	10 for \$1.50 each			
BU941ZP NPN, TO-218 \$1.75	TO-92 SOCKET			
GES-5307 NPN, TO-92 5 for 50¢ .08 MPSA13 NPN, TO-92 5 for 50¢ .08	1			
TIP112 NPN TO-220 .50 .40	CAT# STR-92 4 for \$1.00 • 100 for \$20.00			
TIP120 NPN, 5A 60V, TO-220 .75 .65	rp@allcorp.com 51			

PHOTO-TRANSISTORS

Ledtech # LT9593-91-0125.	a 🖻
Water-clear T 1 3/4 with flat face.	-
CAT # PTR-1 2 for \$1.30 • 5	0 for \$25.00

EETP140. Three-lead side looking optoelectronic device. 0.14"x 0.16" x 0.11" thick. Raised 0.05" diameter lens. CAT# PTR-2 4 for \$1.00

Rohm #RPT-38PB3F. Top-view NPN silicon planar phototransistor. Visible light filter to minimize stray light interference. T1, 3mm dia. package. CAT# PTR-4 2 for 80¢

OPTOISOLATORS

6 nin DIP nackade

o pin Dir pe	іскауе			
CAT#	Description	1	<u>10</u>	<u>100</u>
IL2	NPN transistor output	.35	.30	.25
4N25	NPN transistor output	.45	.40	.35
4N26	NPN transistor output	.40	.35	.30
4N27	NPN transistor output	.45	.40	.30
4N33	NPN darlington output	.50	.45	.35
4N35	NPN transistor output	.60	.50	.40
H11D1	NPN transistor output	.60	.50	.40
MOC3022	Triac output	1.00	.90	.70

DIODES

HIGH VOLTAGE RECTIFIER					
CAT# R6000	VOLT 6000	AMP 0.2	PRICE .50	100 40.00	1000 300.00
	RE	CTIFI	ER DIO	DES	
CAT# 1N4001 1N4002 1N4003 1N4003 1N4005 1N4007 1N5400 1N5400 1N5406 1N5408 D620 Gi851	VOLT 50 100 200 400 600 50 200 400 600 50 200 400 600 50 200 400 600 1000 600 600 600 600 600	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	PRICE /\$1.00 /\$1.00 \$\$1.00 \$\$1.00 \$\$1.00 \$\$1.00 \$\$1.00 \$\$1.00 \$\$1.00 \$\$1.00 \$\$1.00 \$\$1.00 \$\$1.00 \$\$1.00 \$\$1.00 \$\$1.00 \$\$1.00 \$\$1.00 \$\$1.00	100 5.00 6.00 9.00 12.00 6.00 12.50 15.00 17.00 20.00 30.00 40.00 15.00	1000 40.00 50.00 75.00 85.00 100.00 45.00 100.00 110.00 130.00 150.00 250.00 350.00 400.00 110.00
Special 1N5406		d bent lea 3 5/	ads (\$1.00	12.00	80.00
1A RECTIFIERS – AMMO PACK SPECIALS 1N4001 50V CAT# 1N4001-TR 100 for \$3.00 (\$0.03 each) 1000 for \$20.00 (\$0.02 each) 3000 for \$45.00 (\$0.015 each)					
1N4004 400V CAT# 1N4004-TR 100 for \$3.75 (\$0.0375 each) 1000 for \$25.00 (\$0.025 each) 5000 for \$75.00 (\$0.015 each)					

1N4006 800V

CAT# 1N4006-TR 100 for \$5.00 (\$0.05 each) 1000 for \$40.00 (\$0.04 each) 3000 for \$105.00 (\$0.035 each)

SCHOTTKY DIODES

PIV	price	100
20	3/\$1.00	27.00
40	3/\$1.00	27.00
45	\$1.20 ea.	95.00
40	\$2.00 ea.	170.00
	20 40 40 45	20 3/\$1.00 40 3/\$1.00 40 3/\$1.25 45 \$1.20 ea.

40 AMP 600 VOLT RECTIFIERS

D0-5 case,	5.3	20
stud-mount re	ectifier. 🔍 💐	
1N1190A	Cathode case	\$ 3.50 each
1N1190AR	Anode case	\$ 3.50 each

0.4 AND 0.5 WATT ZENER DIODES

CAT#	VOLTAGE	WATTS	
1N957B	6.8	0.4	4 OF ONE VALUE \$1.00
1N5242	12	0.5	100 OF ONE VALUE \$20.00
1N5244	14	0.5	

1 WATT ZENER DIODES

All Zeners listed are 5 OF ONE VALUE \$1.00 100 OF ONE VALUE \$15.00

CAT#	VOLTAGE	CAT#	VOLTAGE	1	CAT#	VOLTAGE
1N4728	3.3	1N4734	5.6		1N4742	12
1N4729	3.6	1N4735	6.2		1N4744	15
1N4730	3.9	1N4737	7.5		1N4745	16
1N4731	4.3	1N4739	9.1			
1N4733	5.1	1N4740	10			

5W ZENER DIODES

CAT#	VOLTS	PRICE	<u>100</u>
1N5349B	12V	4 for \$1.00	\$20.00
1N5354B	17V	4 for \$1.00	\$20.00
1N5358B	22V	4 for \$1.00	\$20.00

SWITCHING DIODES

	1000		
CAT#	PRICE	100	1000
1N914	15 for \$1.00	\$5.00	\$35.00
1N916	15 for \$1.00	\$5.00	\$35.00
1N4148	15 for \$1.00	\$5.00	\$35.00
1N4448	15 for \$1.00	\$5.00	\$35.00

ULTRAFAST RECTIFIERS

16 Amp 200V TO220AB CAT# GI2404 90¢ each 100 for 70¢ each

DUAL ULTRAFAST

200V 10A, TO-220F plastic package. CAT# BYQ28X-200 75¢ each • 100 for 55¢ each

1N4936 1A 400V FAST RECOVERY DIODE

Axial leaded, DO-41 package. CAT# 1N4936 15 for \$1.00 100 for \$4.00 • 1000 for \$35.00

3A 1000V ULTRA-FAST RECTIFIER

Vishay UF5408. Soft recovery, ultrafast rectifier. DO-201AD package. Tape & reel (E3/54) packaging. 10 for \$3.00 CAT# UF5408 100 for 25¢ each • 1400 for 15¢ each

4A 600V ULTRAFAST RECTIFIER

Motorola# 460 9909, 4A 600V. CAT# MUR460

10 for \$3.50 100 for 27¢ each

30 DAY MONEY-BACK GUARANTEE



MAGNETS

POWERFUL NEODYMIUM RARE EARTH MAGNETS

Nickel-plated neodymium (NdFeB) magnets have ratings into the 45MGOe range far exceeding the Samarium Cobalt in the 32MGOe range and Alnico or Ceramics in the 8MGOe range. *CAUTION! Because* of the high strength of Neodymium magnets, and to prevent injury to people or equipment, care must be taken when handling these around other magnets or metal objects.

SQUARE 4.6 x 4.6 x 2mm CAT# MAG-82 4 for \$1.00 • 100 for \$18.00



BAR 5 x 10.2 x 2.7mm CAT # MAG-74 2 for \$ 1.00 100 for 35¢ each

BAR 25 X 15 X 2mm CAT# MAG-144 \$1.75 each



BAR 50 x 14.5 x 5.3mm CAT# MAG-132 \$7.50 each

CYLINDER 6.35mm dia. x 5.1mm long **CAT # MAG-76** 60¢ each 100 for 45¢ each



DISC 9.1mm diameter x 1.5mm **CAT# MAG-141** 4 for \$1.00

 BUTTON 9.5mm dia. x 5.1mm

 CAT # MAG-80
 75¢ each

 15 for 65¢ each
 105 for 50¢ each

DISC 10mm diameter x 2mm thick. **CAT# MAG-143** 5 for \$1.00 100 for \$16.00



CYLINDER W/ HOLE 12.1mm dia. x 9.5mm, 6.4mm hole. **CAT# MAG-116** \$3.00 each

DISC W/ HOLE 15mm diameter x 3mm, 4mm hole. CAT# MAG-134 \$1.00 each • 100 for 85¢ each

RING 19mm o.d. x 12mm i.d. x 3mm thick **CAT# MAG-133** \$1.55 each 100 for \$1.40 each



DISC 25.4mm dia. x 3.2mm thick CAT# MAG-115 \$3.75 each

MAGNETIC NEODYMIUM SPHERES

<u>Dia.</u>	CAT#	Price
4.8mm	MAG-101	\$1.50 each
25.4mm	MAG-104	\$18.75 each

Because of its high strength, use caution when handling the largest magnet around metal objects or other magnets.

CERAMIC MAGNETS

0.5" DIA. X 0.15" CAT# MAG-122 10 for 80¢ 96 for 6¢ each • 960 for 5¢ each



0.5" DIAMETER X 0.2" 0.1" hole in the center. **CAT # MAG-68** 10 for \$1.00 • 100 for \$7.50

0.72" DIA. X 0.16" CAT# MAG-121 10 for 90¢ • 100 for \$6.50 500 for 6¢ each • 1000 for 5¢ each

1.86" x 0.87" x 0.18" magnetic ferrite bar. **CAT# MAG-119** 2 for \$1.00 • 30 for 40¢ each

CERAMIC RING MAGNET

37mm o.d. x 22mm i.d. x 4mm thick. **CAT# MAG-142** 3 for \$1.00 50 for 28¢ each

CABINET LATCH MAGNET

Ceramic magnet sandwiched between two metal plates. 0.95" x 0.62" x 0.27" overall. Striker plate is 2" x 0.5" x 0.1" thick. Metal parts may have some discoloration. No screws included. CAT# MAG-123 3 for \$1.00



ALARM SWITCH MAGNETS

New, unused magnets for Amseco #AMS-17 alarm switches. Plastic encased, Alnico-5 magnet designed to be press-fit into 3/8" dia. hole. Available in ivory and brown.

Ivory magnet CAT# MAG-170I 35¢ each • 10 for \$2.50



Brown magnet **CAT# MAG-170B** 35¢ each • 10 for \$2.50

MAGNETIC RUBBER SHEET

Flexible magnetic sheet, 7.37" x 7.37" x 0.08" thick. Two corners cut off. Easy to cut or punch. Can be written on; printable. **CAT# MAG-145** \$2.75 each



VACTEC OPTOISOLATOR

output element. Resistance is inversely proportional to input drive current. Applications include, audio limiting and compression, automatic gain control. Linear and DC isolators, SCR and Triac drives, logic interfacing and noiseless switching. 0.38"D x 0.40" L. No. of Channels:1. Isolation Voltage: 2500Vrms. Optocoupler Output Type:Resistor. Input Current Max:10mA. Output Voltage Max: 30V. **CAT# VTL5C4** \$3.95 each 10 for \$3.75 each

CRYSTALS

HC49/U (HC18/U) case. 0.52" x 0.43" x 0.18". 0.2" lead spacing.

14.745 MHz	CAT# CRY-147
14.7456 MHz	CAT# CRY-1474
24.576 MHz	CAT# CRY-245
40 MHz	CAT# CRY-401
40.320 MHz	CAT# CRY-4032
44.545 MHz	CAT# CRY-4454

All of one value 5 for \$1.00 • 100 for \$15.00

50.000 MHz CRYSTAL OSCILLATOR

KDS# DOC-70ZA, KDS-3F 50.000 MHz. 0.8" x 0.5" x 0.21" high. Four pc leads on 0.3" x 0.6" centers. **CAT# CRX-503** \$1.25 each 100 for \$1.00 each



10 MHz CRYSTAL OSCILLATOR

CX0829Z. 12.5 x 12.5 x 5.5mm metal package. Four leads on 8mm centers.

CAT# CRX-103 \$1.00 each

7.372800 MHZ CRYSTAL

Seiko Epson# MA-505. 13.46 x 5.06 x 4.6mm surface mount package. **CAT# CRY-737** \$1.00 each • 10 for 85¢ each

CERAMIC RESONATORS

4 Mhz CAT# CER-4 12 Mhz CAT# CER-12 16 Mhz CAT# CER-16 20 Mhz CAT# CER-20

\$1.00 each \$1.00 each \$1.00 each \$1.00 each

INDUCTORS

0.676 MICRO HENRY ADJUSTABLE CHOKE 0.375" X 0.375" X 0.75" high coil with adjustable ferrite. PC leads on 0.38" (10mm) centers. CAT# RC-676 3 for \$1.00 • 100 for \$25.00



RFE International # LGA-X1123-101K. 0.43" diameter x 0.79" long. CAT# ACB-101 \$1.00 each 100 for 70¢ each

345 UH TOROIDAL INDUCTOR

0.6" diameter x 0.415" high. Two pc leads on 0.38" centers. 345 uH. Max. DCR: 0.2. Large quantity available. **CAT# CR-345** 3 for \$1.00 240 for 20¢ each • 1680 for 15¢ each

FERRITE BEADS

Fair Rite # 2643054201. 43 shield bead for 20-300Mhz. 14.5mm long x 9.5mm o.d. x 6mm i.d. RoHs. **CAT# FB-94** 2 for \$1.00 100 for 45¢ each • 300 for 35¢ each

29mm long x 14mm O.D. x 6.5mm I.D. Broadband Frequencies 25-300 MHz CAT# FB-96 65¢ each 10 for 50¢ each

0.86"O.D. x 0.54"I.D. x 0.26" CAT# TOR-61 45¢ each 28.5mm x 16mm O.D. x 8mm I.D. **CAT# FB-97** 65¢ each 10 for 50¢ each



FERRITE BEAD-ON-LEAD

Leaded ferrite

suppression bead. For broadband frequencies 25-300MHz (43 material).

Fair-rite # 2743002112 4mm diameter x 9mm long bead. Tape & reel. **CAT# FB-73** 5 for 50ϕ • 100 for 7ϕ each 500 for 6ϕ each • 1000 for 5ϕ each

Fair-rite # 2743001111. 3.5mm diameter x 4.5mm long. **CAT# FB-82** 5 for 50¢ • 100 for 7¢ each 500 for 6¢ each • 1000 for 5¢ each

WOUND FERRITE BEAD

Fair-rite # 2943666671. 2 1/2 turns, 24 AWG wire in a 43 Ferrite bead. 43 material frequency range, 25-300mHz. 40mm leads. **CAT# FB-93** 4 for \$1.00

FERRITE SPLIT BEAD WITH SNAP SLEEVES

Used to suppress RFI, EMI and unwanted spurious signals. Easy to install.



Self-locking plastic snap sleeve holds ferrite form in place.

0.20" I.D. TDK # ZCAT1325-0530A. 100-500 mHZ frequencies. 50 ohm impedance. Case size, 25 x 13mm diameter.

CAT# FB-98 75¢ each 10 for 65¢ each • 100 for 50¢ each

0.20" I.D. Fair-Rite # 0444173951.
#44 ferrite material for broadband frequencies,
25-300 MHz. Case size, 24.5 x 12.5mm diameter.
CAT# FB-99 75¢ each
10 for 65¢ each • 100 for 50¢ each

0.32" I.D. Case size, 33 x 20 x 20mm. CAT# FB-86 \$2.00 each 10 for \$1.80 each • 100 for \$1.60 each

0.36" I.D. Case size 35 x 18 x 20mm. **CAT# FB-100** \$2.00 each 10 for \$1.80 each • 100 for \$1.60 ea.



0.41" I.D. Case size, 34 x 23 x 23mm. CAT# FB-87 \$2.00 each 10 for \$1.80 each • 100 for \$1.60 each

0.4" I.D. 1.55" x 1.18" x 1.00" CAT# FB-80 \$2.00 each 10 for \$1.80 each • 100 for \$1.60 each

0.43" I.D. CAT# FB-83 \$2.00 each 10 for \$1.80 each • 100 for \$1.60 each

0.5" I.D. 36mm long x 25mm diameter. CAT# FB-90 \$2.00 each 10 for \$1.85 each • 100 for \$1.60 each

0.52" I.D. 36mm long x 23mm diameter. CAT# FB-89 \$2.00 each 10 for \$1.85 each • 100 for \$1.60 each

30 DAY MONEY-BACK GUARANTEE

WALL Style Screw Termi			STYLE Table T	and the second sec	A	co-ax plug
	A	A.C. WALL TRAI	VSFO	RMERS		
VOLTS	AMPS	TERMINATION	STYLE	CAT#	PRICE	<u>100 +</u>
8 Vac	300 ma	Screw terminals	D	ACTX-831	\$4.95	\$4.35
9 Vac	13.5VA	3.5mm phone plug	С	ACTX-915	\$5.95	\$5.25
9 Vac	700 ma	bare wires	С	ACTX-970	\$4.50	\$4.00
16 Vac	20VA	Screw terminals	D	ACTX-1620	\$7.00	\$6.00
16 Vac	40VA	Screw terminals	D	ACTX-1640	\$9.25	\$8.50
24 Vac	12VA	2.1mm right-angle	С	ACTX-2412	\$6.00	\$5.00
24 Vac	750 mA (18VA)	pigtail leads	С	ACTX-2418	\$6.50	\$5.50
24 Vac	830 mA (20VA)	Screw terminals	D	ACTX-2420	\$8.95	\$7.70
24 Vac	1.6 amp (40VA)	Screw terminals	D	ACTX-2440	\$9.50	\$8.75
24 Vac	2000 mA	2.1mm co-ax	В	ACTX-2422	\$11.50	\$10.85

A Note on Wall Transformers: A.C. and D.C. Wall Transformers are not regulated unless otherwise stated. They provide a specified voltage at a specified load. If the load is lower than specified, the voltage will be higher then specified. With a higher load, the voltage will drop below that specified. For example, a 12 volt 500 ma. wall transformer may read 20 volts with no load or 9 Volts with a 600 ma. load.

D.C. WALL TRANSFORMERS							
VOLTS	AMPS	TERMINATION	<u>CENTER</u>	STYLE	CAT#	PRICE	<u>100+</u>
3 Vdc	100 ma	2.5mm phone plug	negative	С	DCTX-31	\$1.35	\$1.00
3 Vdc	300 ma	3.5mm phone plug	positive	С	DCTX-331	\$2.50	\$1.65
6 Vdc	200 ma	1.3mm co-ax	positive	С	DCTX-620	\$2.65	\$2.20
6 Vdc	300 ma	1.3mm co-ax	positive	С	DCTX-634	\$3.00	\$2.50
6 Vdc	500 ma	1.3mm co-ax	positive	С	DCTX-650	\$2.75	\$2.00
6 Vdc	800 ma	2.5 mm co-ax	positive	С	DCTX-681	\$3.50	\$2.25
7.5 Vdc	1 amp	2.1mm co-ax	positive	С	DCTX-751	\$4.85	\$4.15
7.5 Vdc	500 ma	1.3mm co-ax	positive	С	DCTX-755	\$3.50	\$2.50
9 Vdc	150 ma	1.7mm co-ax	positive	С	DCTX-9150	\$2.50	\$1.65
9 Vdc	300 ma	1.3 mm co-ax	positive	С	DCTX-936	\$2.85	\$2.10
9 Vdc	700 ma	1.5 mm co-ax	positive	С	DCTX-970	\$4.00	\$3.00
12 Vdc	800 ma	2.1mm co-ax	positive	С	DCTX-1280	\$6.50	\$5.85
NEW 13 Vdc	1 amp	2.5mm co-ax	positive	С	PS-131	\$5.00	\$4.00

For regulated plug-in-wall switching power supplies see pages 58 and 59

DC POWER PLUG CONVERTERS

DC POWER PLU	G CONVERTERS
If your wall transformer doesn't have the correct coax power plug, these adapters may help. They will change the plug size, not the polarity. If you	 Changes 2.1mm to 2.5mm Changes 2.1mm to 1.3mm Changes 2.1mm to 1.7mm
need to change polarity, cut off the plug, reverse the wires and resplice it.	
CURRENT TRANSFORMERS	Any of the adapters above \$2.00 each
WICC # MW1003. 0.66" window, 1.90 O.D., 1.42" high. 2.05" square mounting base with holes in four corners. 24" leads. 0.6 KV. 50-400Hz. Ratio: 150/1. Burden: 5 @ 60Hz. UL. CAT# TXC-3 \$6.50 each	BOBBIN Ho Sung International. EI-2820 nylon bobbin. Core is 10 mm x 13 mm x 10 mm high. Top is 18.5 mm x 21.5 mm. Base is 22 mm x 26 mm. Four leads, 15 mm and 20 mm spacing. CAT# BN-1
Instrument Transformers, Inc. #19SHT-202 Ratio: 2000:5 A. RF 1.33 ACC CLASS B0.5 0.3. 50-400Hz. 600V Insulation. Class 10KV. BIL 5.87" x 5.87" x 1.11". 4.25" dia. window. Brass studs. cULus. CAT# TXC-1 \$35.00 \$20.00 each	200 pieces for \$5.00 • 1000 pieces for \$20.00 IF TRANSFORMER Cord Electronics# Y5117A. Adjustable mini-transformer. 10 x 10 x 12mm high. CAT# IF-5117 3 for \$1.00 • 100 for 25¢ each RUBBER SHOCK MOUNT
Instrument Transformer #19SHT-152-1. Ratio: 1500:1A. 50-400Hz 600V Ins. Class 1 0KV BIL. 6.0" x 6.0" x 1.2". 4.25" window. UL, CSA. CAT# TXC-2 -\$35.00- \$20.00 each	Rubber shock-mount or damper. 28mm o.d. x 15.5mm high x 7mm i.d. CAT# SHK-1 35¢ each 100 for 25¢ each

TRANSFORMERS

POWER TRANSFORMERS

All power transformers have 115 vac 50/60 hz primaries unless otherwise noted.



12 V.C.T. @ 1 AMP 1.98" h. x 2.32" x 1.80". CAT# TX-121 \$10.00 each

12 V.C.T. @ 2 AMP 1.96" x 1.60" x 1.67" high. CAT# TX-122 \$12.00 each

12 V.C.T. @ 3 AMP 2.33" x 1.75" x 1.98" high. CAT# TX-123 \$18.00 each

12VCT 4A 2" high X 2 11/32" x 2". 115 vac 50/60 hz primaries. CAT# TX-124 \$19.75 each

12 V.C.T. @ 5 AMP 3.03" x 2.70" x 2.53" h. CAT# TX-125 \$28.00 each

24V 1.67A Triad Magnetics # TCT40-01E07AB. Secondary: 24V 40VA. Class 2 control transformer. 2.62" x 2.17" x 2.23". Mounting flanges with holes on 3.06" centers. 1/4" qc/ solder terminals. UL, CSA. CAT# TX-2440 \$7.75 each

24 V.C.T. @ 2 AMP 2.33" x 1.90" x 1.97" h. CAT# TX-242 \$18.00 each

24 V.C.T. @ 3 AMP 3.1" x 2.64" x 2.63" high. Solder lugs. CAT# TX-243 \$26.00 each

24 V.C.T. @ 5 AMP 2.83" high x 3.43" x 3.23". 117 Vac 60 Hz. Solder lugs. CAT# TX-245 \$40.00 each

36 V.C.T. 0.8 AMP Shielded case. 2.5" x 2.37" x 2.13" high. Mounting holes on 80mm centers. 8" leads. CAT# TX-36 \$6.00 each

39.8V AND 22.5V @ 2.25A

Primary: 120V 60Hz. Secondary: 22.5VCT and 39.8VCT @ 2.25A (see diagram online) 88 x 91 x 77mm high. Shielded on four sides. Built-in thermal fuse. Mounting holes on 75 x 70mm centers. Primary leads 3.25". 6" leads on secondary. Removed from new equipment in good condition. CAT# TX-398 \$20.00 each

24V 20A TRANSFORMER. 230 VAC 50 HZ PRIMARY (12V 40A @ 115 VAC)

Lenco Electronics, Inc. Primary: 230VRMS 50Hz. Secondary: 24VRMS @ 500VA 5.26" x 4.76" x 4.39" high. Mounting holes on 4.38" x 3.38" centers. Threaded/ solder-lug terminals. UL. Weight, 15.20 lbs.



PC MOUNT TRANSFORMERS

6V/1A OR 12VCT/.5A MCI # 4-01-4012. Primary: 115V 50/60Hz. Secondary: Series 12.6Vct @ 0.5A / Parallel 6.3V @ 1A. 41.5 x 33.5 x 33.0mm high. PC pins. UL, CSA. CAT# PCTX-612 \$5.35 ea. • 10 for \$4.85 ea.

16VCT @ 0.35A OR 8V @ 0.70A

MCI #4-05-2016 Primary:115/230Vacs Secondary: Series 16VCT @ 0.35A Parallel 8V @ 0.70A Low-profile pc mount transformer. 48 x 39 x 21mm high. PC pins. UL, CSA. CAT# PCTX-816 \$6.90 each



Designed to reflect 600 Ohms on Primary with 365 Ohm load on secondary. 30 x 20 x 14mm. Four pc leads on 10 x 25mm centers.



CET Technology # CT-AXF5013 CAT# TCTX-16 \$1.00 each

Atech # ATS-166 CAT# TCTX-17 \$1.00 each

VARIACS

Input: 110 vac Output: 0 - 130 vac Fully enclosed variable transformers in ventilated steel cases with 6' power cord, 3 prong grounded receptacle, output voltage meter, on/off switch, fuse and power cord. Portable or mountable.



3 AMP VARIABLE TRANSFORMER 5.35" X 4" X 5.5" high. Weight: 6.5 lbs. CAT # SC-3M \$64.00 each

5 AMP VARIABLE TRANSFORMER 4.75" X 7" X 6" high. Weight: 8 lbs. CAT # SC-5M \$120.00 each

10 AMP VARIABLE TRANSFORMER 6.5" x 9" x 6" high. Weight: 20 lbs. CAT # SC-10M \$155.00 each

20 AMP VARIABLE TRANSFORMER 6.5" x 9" x 7.5" high. Weight: 22 lbs. CAT # SC-20M \$198.00 each



Inexpensive craft and hobby iron for occasional use. For 120 VAC. **CAT# IR-330** \$7.95 each

tips (one straight, one angled).

CAT# PL-330 \$2.00 per set



CAT# TX-24500 \$65.00 each SHOP ON-LINE WWW.ALLELECTRONICS.COM



POWER SUPPLIES

0-30VDC +5VDC +12VDC LAB POWER SUPPLY/LCD DISPLAY

0-30 Vdc, 3 Amp -- adjustable voltage and current. 12 Vdc, 1.2-1.6 A. 5 Vdc, 1.2-1.6 A

Digital LCD displays for Voltage and Current (for adjustable supply). Current limit indicator. Ripple and noise < 5 mV. Short circuit protected. Fused 6" x 5.75" x 12" 4.5 Kg. CAT# PS-613 \$184.95 each



VARIABLE POWER SUPPLY, 0-30 VOLT / 0-3 AMP

HQ Power # PS3003U. Compact, single output lab power supply. Dual LCD displays. Coarse and fine adjustments for voltage and current. Settable voltage and current limits with LEDs to indicate when current or voltage limits are operational. Size: 6" H x 5 1/2" W x 11 1/2" D



Size: 6" H x 5 1/2" W x 11 1/2" D Weight: 11 lbs. 1 year warranty. CAT# PS-3003 \$179.75 each

MULTI-OUTPUT SWITCHERS

SWITCHING POWER SUPPLIES MUST BE TESTED UNDER LOAD!

Regulated switching power supplies. Ideal for a variety of portable appliances and breadboard projects. Selectable voltages: 3/4.5/6/7.5/9/ 12 Vdc. Includes a

anna 🧓

variety of connectors that fit popular home electronics. Available in 1A and 2.2A sizes.

1 Amp Max. current CAT # PS-10 \$13.95 each

2.2 Amp Max ourrent

2.2 Amp Max. current CAT# PS-22 \$21.95 each

12VDC/2A, 5VDC/2A POWER SUPPLY

Input: 100-240Vac Output: 12Vdc @ 2A, 5Vdc @ 2A Table-top supply with detachable power cord. Output is 29" cord with 6-pin mini-DIN plug. CE. CAT# PS-0512 \$14.95 each



POWER SUPPLY: 5V/12A, 16V/3A,

-5V/0.8A, -15V/0.8A

EOS # VLT100-4002 Input:100 - 240 VAC Outputs: 5VDC @ 12A, 16VDC @ 3A, -5VDC @ 0.8A, -15VDC @ 0.8A * 100W convection cooled rating * 3x5x1 inch package * UL, DVE, CE * Power good and power fail signal CAT# PS-4002 \$14.75 each

SINGLE OUTPUT SWITCHING POWER SUPPLIES

Ideal for scanners, cameras and sensitive equipment requiring a constant, regulated output. All of the following power supplies operate on 120-240 Vac. UL, CSA.

5 VDC 1 AMP

Ericsson # BMLU101001-4. 6 foot cord terminated with 8-pin modular phone plug. Four color coded 22 gauge stranded conductors. Red and black leads are +5 Vdc; the yellow and white are ground. **CAT# PS-513** \$4.50 each 10 for \$ 4.00 each • 100 for \$ 3.00 each

5 VDC 2 AMP

Input: 100-240Vac, 0.3A. Output: 5Vdc, 2A. 5' cord with coax power plug, 2.1mm id, center positive. Small, lightweight package, 2.22" x 1.61" x 1.20" (excluding plug). RoHS. cULus. CAT# PS-529 \$6.85 each

5 VDC 4A

OpenPeak(R) # OP-20004. 5Vdc, 6' cord with 2.1mm i.d. coax power plug, center positive. cULus. RoHS. CAT# PS-541 \$9.50 each

6 VDC 1.6A

SEZMI #KSAC0600160W1US Input: 100-240 VAC 50/60Hz 0.4 A. Output: 6 Vdc @ 1.6 A. 5' cord with in-line ferrite bead noise suppressor and 2.5 mm coax power plug, center positive. cULus CAT# PS-616 \$9.50 each

8.4 VDC 0.6A

Canon CA-590. 5' cord. Plug cut off. **CAT# PS-846** \$4.00 each

9 VDC 600MA

PHC # SW-9600 2.1mm x 5.5mm coax power plug. Center positive. UL. **CAT# PS-961** \$9.75 each

9 VDC 1A

APS #HK-C109-A09. Input: 100-240 Vac, 50/60 Hz, 0.35A. Output: 9Vdc @ 0-1.2A (set at 1.0A). 4' output cord with 1.3mm coax power plug. Tip positive. cULus, FCC. CAT# PS-912 \$10.50 each

12 VDC 500 MA REGULATED POWER SUPPLY

Model:PS120V0500. Input: 100-240V, 50/60 Hz, 0.35A max. Output: 12 Vdc, 500 mA. Green indicator LED. 5' cable with 2.1mm coax plug. Center positive. cULus. CAT# PS-1251 \$8.50 ea. • 10 for \$8.00 ea.

12 VDC 700 MA ITE #26092.

2.1mm coax power plug, center positive. UL listed CAT# PS-1270 -\$8.50- \$7.50 each



12VDC 750MA POWER SUPPLY

LiteOn #PA-1090-1. 2.5mm coax power plug, center positive. Detachable, 2-conductor power cord. cULus, CE. CAT# PS-12751 -\$8.50 \$7.50 each



12VDC 1A POWER SUPPLY

Switching power supply. Input: 100-240V, 50-60Hz, 0.3A. Output: 12Vdc, 1Amp. Right-angle coax power plug. 5.5mm od, 2.1mm id, center positive. cULus, CE. CAT# PS-1219 -\$8.95 \$7.95 each



Input: 100-240V 50/60Hz 0.35A. Table-top type power supply. 6' SPT-1 zipcord output cord. Standard detachable IEC input cord included. cULus. CE. CAT# PS-1239 \$7.95 each

12 VDC 1.25A CUI STACK# DSA-0151A-12. Input: 100 - 120 Vac, 50/60 Hz, 0.4 A. Output: 12 Vdc 1.25 A. 6' output cord with 2.1mm coax power plug. Tip positive. FCC cULus. **CAT# PS-12125** \$9.95 each

12 VDC 1.25A

Globtek, Inc. #GTM21089-1512-W2. Input: 100-240V 50-60Hz. Output: 12Vdc, 1.25A 15W. Wall plug-in switching power supply designed for medical use. 72" SPT-1, 18AWG output cord with coax power plug, 5.5 x 2.5 x 11mm, center positive. cULus, VDE, TUV CAT# PS-12225 \$9.95 each 50 for \$9.35 each

12 VDC 1.5 AMP

Regulated 12Vdc 1.5A power supply. Input: 100-240Vac. 4' cord with 2.1mm coax power plug. Tip positive. CAT# PS-1228 \$10.50 each

12VDC 2A

UEtech# 1024E1200082. Input: 100-240 Vac, 50-60 Hz, 0.8 A. Output: 12V, 2A. 2.5mm co-ax power plug. Center positive. 5' cable. cETLus, CE. CAT# PS-1223 \$12.95 each



REGULATED 12 VDC 2 AMP

Input: 100-240Vac. 4' cord with 2.1mm coax power plug. Tip positive. CAT# PS-1227

\$13.75 each



Model: PS120V3000-D. Input: 100-240 Vac, 50/60 Hz, 0.8A. Output: 12V 3000 mA. 117 x 48 x 34mm. 5' cable with 2.5mm coax plug. Center positive. Detachable IEC power input cord. cULus. CAT# PS-1260 \$16.00 each

12 VDC 5 AMP

Model: FY1205000. Input: 100-240 Vac, 50 Hz, 200 VA. Output: 12 Vdc 5A. 119 x 54 x 31mm. 5' cord with ferrite split bead and 2.5mm coax power plug. Center positive.

Detachable 3-conductor laptop style power cord. cULus, CE. **CAT# PS-1262** \$18.75 each

12 VDC 5.83 AMP

Phihong Model PSA80U-120. Input: 100-240V 50-60Hz 2.0A. Output: 12.1V 5.83A. Table-top model, 5.93" x 2.78" x 1.54". 46" output cord two ferrite bead EMI suppressors. 4-pin mini-DIN connector. Detachable grounded IEC power cord. cULus, CE, TUV. **CAT# PS-12583** \$18.50 each • 10 for \$17.00 each

13.5VDC 500MA

Input: 100-240Vac 50/60Hz 0.3A. 6'cord w/ 2.1mm coax power plug, Center positive. CE CAT# PS-1355 \$6.75 each

15VDC 2.5A

Symbol Technologies Inc. Model ADP-5002-15V. Input: 100-240V 50-60Hz. Output: 15Vdc 2.5A. Switching power supply. 4.80" x 2.85" x 1.64" case with rubber feet. Standard 3-prong IEC input connector (cord not included). Output is 6 pin connector (soc)



Output is 6-pin connector (see diagram). May require some modification to access output. cULus. CAT# PS-1525 \$6.75 each





MOST ORDERS SHIPPED WITHIN 24-48 HOURS





18 VDC 5.6 AMP

Elpac# MWB100018A. Input: 100-240V 50/60Hz. 2.3A. Enclosed table-top switching supply, 127 x 77 x 35mm, 6' output cord with 8-pin male DIN plug. Includes detachable IEC power cord. CE, RoHs.

CAT# PS-1856 \$19.00 each

24 VDC 1.67 AMP

Elpac #MTA040024A Input: 100-240Vac 102 x 51 x 26.5mm (4"x 2" x 1") open frame switching supply. CE, RoHs CAT# PS-2467 \$11.50 each



24 VDC 2.71 AMP

Flpac# MW6524F Input: 100-240V 50/60Hz, 1.75A. Enclosed table-top switching supply, 130 x 77 x 34mm. Enclosure is white. 6' output cord with 5-pin male DIN plug. Includes detachable



IEC power cord. CE, TUV, RoHs. CAT# PS-2427 \$14.75 each

FLASHLIGHTS

9 LED FLASHLIGHT

Compact, bright flashlight. Push-on, push-off button at back of flashlight. Aluminum shell, 3.86" long x 1.19" dia. Comes in blue, red, aluminum and black. No choice of colors.



Box of 12 contains three of each color. Operates on three AAA cells. CAT# FL-912 \$3.95 each 12 for \$ 3.75 each

24 LED UTILITY LAMP

24 ultrabright white LEDs provide a nice field of illumination for home or automotive needs. Rubberized, hand-held light stick is 8.25" x 2.30" x 1.10". Neodymium, rare-earth magnet on back of lamp for attachment to tool box, car or refrigerator. Convenient 360 Degree swivel hook enables hanging when necessary. Operates on three AA batteries (not included). CAT# FL-240 \$9.00 each



High intensity, long-lasting LED light with adjustable headstrap for "hands-free" illumination. 3 light levels and flash mode. Adjustable beam angle. Requires 3 AAA batteries (not included). LED lifetime of 100,000 hours. \$12.95 each CAT# HL-2

HIGH-BRIGHTNESS 3W LED FLASHLIGHT

Bright 3W LED flashlight. Black, machined aluminum case, 4.8" long x 1.4" diameter, it's a copy of a more expensive and tougher Tactical Flashlight.



Still, it's very bright and fairly rugged, a good flashlight for every day use. Rear mounted on-off switch. Webbed nylon wrist strap. Operates on three AAA cells (batteries not included). CAT# FL-606 \$9.95 each

EXTENDABLE GOOSENECK LED FLASHLIGHT

High-brightness, 3-LED flashlight is perfect for seeing behind, under or around whatever is in your way, 6-section handle gives the flashlight a 21" reach. Last section is a bendable gooseneck, so you can put the light where you need it. 6.5" collapsed length. Three AG13 batteries included. CAT# FL-318 \$8.50 each

UV FLASHLIGHT, 16-LED

Ultraviolet light reveals the security strips in US currency, watermarks hidden in bank notes and fluorescent ink and dyes used as anti-counterfeiting measures in credit cards.

Illuminate scorpions, check hand stamps at clubs, scan a crime scene for foreign materials. Solid aluminum body. Long-life LEDs emit 380-385nm. Operates on 3AAA batteries (not included). CAT# FL-UV2 \$11.50 each

POCKET UV LAMP

Inspect paper currency. ultra-violet hand stamps, look for small fluorescent creatures in the dark. Pocket-size UV light fits on key ring. Operates on three LR-44 button cells (included). 13mm dia. x 62mm long. CAT# UVL-3 \$3.00 each

HIGH-INTENSITY LED **KEYCHAIN LIGHT**

Slide-switch style. Keyring and batteries included. CAT# GL-2 \$3.50 each 10 for \$3.00 each • 100 for \$2.35 each



LITTELFUSE MEGA® HIGH-**CURRENT FUSE HOLDER**

Littelfuse# 298100, Bolt-down fuse holder for Mega® fuses up to 500 Amps. Ideal for battery and alternator connections and other heavy

gauge cables requiring ultra high

current protection. Includes protective cover. Interlocking tabs on side of fuse block enable secure multiple block configurations. M8 threaded studs and hex nuts with lock washers. Nylon block and cover. Overall length, including mounting holes, 119.4mm x 38.1mm wide x 38.9mm high with cover. \$8.00 each **CAT# FHP-298**

METERS

PM89 SERIES PANEL METERS

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3.15" x 2.5" x 2" depth. 2.5% accuracy. Large clear scale, black lettering on white background. Available in a variety of ranges.

DC MICROAMMETERS

	CAT #	EACH	10+
0 - 50 uA DC	PMD-50UA	\$12.00	\$10.00
0 - 100 uA DC	PMD-100UA	\$12.00	\$10.00

DC MILLIAMMETERS

	CAT #	EACH	10+
0 - 1 mA	PMD-1MA	\$12.00	\$10.00
0 - 25 mA	PMD-25MA	\$12.00	\$10.00
0 - 50 mA	PMD-50MA	\$12.00	\$10.00
0 - 100 mA	PMD-100MA	\$12.00	\$10.00
0 - 300 mA	PMD-300MA	\$12.00	\$10.00
0 - 500 mA	PMD-500MA	\$12.00	\$10.00

DC AMMETERS

	CAT #	EACH	10+
0 - 1 A	PMD-1A	\$12.00	\$10.00
0 - 3 A	PMD-3A	\$12.00	\$10.00
0 - 5 A	PMD-5A	\$12.00	\$10.00
0 - 10 A	PMD-10A	\$12.00	\$10.00
0 - 15 A	PMD-15A	\$12.00	\$10.00
0-25A *	PMD-25A	\$12.00	\$10.00
0-30A *	PMD-30A	\$12.00	\$10.00
0-50A *	PMD-50A	\$12.00	\$10.00
0-100A *	PMD-100A	\$12.00	\$10.00
0-200A *	PMD-200A	\$12.00	\$10.00
*SHUNTS REQU	IRED FOR ALL	METERS 2	5 AMPS
AND ODEATED			

AND GREATER. Under 25A, shunts are included.

DC VOLTMETERS

0 - 10 V	PMD-10V	\$12.00	\$10.00
0 - 15 V	PMD-15V	\$12.00	\$10.00
0 - 30 V	PMD-30V	\$12.00	\$10.00
0 - 50 V	PMD-50V	\$12.00	\$10.00
0 - 100 V	PMD-100V	\$12.00	\$10.00
0 - 150 V	PMD-150V	\$12.00	\$10.00

AC AMMETERS

0 - 1 A	PMA-1A	\$12.00	\$10.00
0 - 3 A	PMA-3A	\$12.00	\$10.00
0 - 5 A	PMA-5A	\$12.00	\$10.00
0 - 10 A	PMA-10A	\$12.00	\$10.00
0 - 15 A	PMA-15A	\$12.00	\$10.00

AC VOLTMETERS

0 - 10 V	PMA-10V	\$12.00	\$10.00
0 - 25 V	PMA-25V	\$12.00	\$10.00
0 - 150 V	PMA-150V	\$12.00	\$10.00
0 - 300 V	PMA-300V	\$12.00	\$10.00



WATT METER 3750W=FS @ 125 VAC

Prime Instrument Model 60

Part # 60-579. Edge-style panel meter. Full-scale=3750 Watts @ 125 Vac. Mounts in 1.85" x 0.76" cut out. Held in place with behind-panel spring clip. 1.7" behind-panel length including 0.25" qc/ solder terminals. CAT# PM-375 \$2.50 each



DIGITAL PANEL METERS

LOW COST 3 1/2 DIGIT LCD DISPLAYS

LCD display size: 1.84" x 0.78". Character height: 0.5". Bezel dimensions: 2.65" x 1.60". Flat-black bezel and body are one unit.



Snap-mounts from front into 2.12" x 1.50" chassis cutout. 9 Vdc operation. Auto polarity indication. 0.2 V CAT# PM-200 \$9.00 each

0.2 V	CAT# PM-200	\$9.00 each
20 V	CAT # PM-21	\$9.00 each
200 V	CAT # PM-22	\$9.00 each

3 1/2 DIGIT LED PANEL METERS

Features: 5 Vdc operation. Common Ground - Can monitor own voltage. 0.56" figure height. Automatic Polarity Indication Zero reading for 0 Volt input. Automatic Polarity Indication. High input



impedance (>100M Ohm). Measuring Method: Dual Slope Integration. A-D converter system. Reading rate time: 2-3 readings per second. Accuracy: 0.5%. Bezel: 2.75" x 1.26" x 0.25"

200 mVDC	CAT # PM-122	\$15.00 each
20 VDC	CAT # PM-120	\$15.00 each
200 VDC	CAT # PM-121	\$15.00 each

LIQUID CRYSTAL DISPLAYS (LCDs)

8 CHARACTER X 2 LINE LCD

Crystalfontz # CFAH0802A-NYG-JT

STN Positive, Yellow/Green, Reflective. Module size: 58 x 32.0 x 8.9mm. Viewing area: 38.0 x 16.0mm.



\$4.50 \$3.25 each • 10 for \$3.00 each

16 X 1 LCD W/ LED BACKLIGHT,

SMALL CHARACTER Vikay 2316STLDYGTN. Module size: 60 x 33mm. Overall depth, 11mm. Characters, 4.35 x 2.10mm (5 x 8 dot). LED backlight. CAT# LCD-2161 \$3.00 each 10 for \$2.50 each



16 CHARACTER X 1 LINE LCD

W/ LED BACKLIGHT Picvue Electronics Ltd. # PVC160101BYL04. 16 character x 1 line LCD module with LED backlight. STN yellow. Character size: 3.07 x 6.56mm. Viewing area: 64.5 x 14.0mm. Module size: 80.0 x 36.0 x 13.5mm. CAT# LCD-161 \$7.85 ea. • 10 for \$7.35 ea.

NO HASSLE RETURN POLICY

16 X 2 LCD W/ LED BACKLIGHT

Phico #16252-11. Module size: 80 x 36mm. Overall depth, 14mm. LED backlight, grey. Prepped with 16-pin header. CAT# LCD-226 \$6.00 each



16 X 2 LCD W/ LED BACK-LIGHT, LARGE CHARACTER

Samsung # UC-16225 GLCT7-A. Module size: 100 x 42mm. Overall depth. 12mm. LED backlight. Prepped with 16 pin header. CAT# LCD-3162 - \$7.50



\$5.95 each

16 X 4 ALPHANUMERIC LCD

Optrex # DMC16433. Module Size: 87 x 60 x 11mm. Viewing Area: 61.8 x 25.2mm. 5 x 8 dot characters, 2.95 x 4.75mm. Dot size: 0.55 x 0.55mm. TN reflective. 5V.



REDUCED CAT# LCD-164 \$9.00 \$6.00 each

20 CHARACTER X 2 LINE LCD W/ LED BACKLIGHT

HYeLCD# HC20216NYU-LYV0-03 Module size.

146 x 42 x 13mm. Display area: 124 x 24mm.



Prepped w/ 16 pin female socket (16 x 1, 0,1" spacing). Green LED backlight operates on 7.5Vdc. CAT# LCD-2021 \$6.25 each

24 CHARACTER X 1 LINE

Wintek # WDC2401P-1GNNA. Module size: 4.25" x 0.79" x 0.3" Display size: 3.5" x 0.4" Built-in driver. 14 pin male header, pins on

0.05" centers. Includes hook-up diagram. CAT# LCD-111 \$1.85 ea. • 10 for \$1.50 ea.

40 X 4 ALPHANUMERIC LCD

Samsung UC-40401-GNAR5-1. Module Size:



190 x 55 x 10mm. Display Area: 147 x 29.5mm. CAT# LCD-404 - \$7.50 \$6.50 each



640 X 400 LCD DISPLAY W/ EL BACKLIGHT

Matsushita #EDM-LG64AA44D. 8.25" x 5.2" graphic display module with electroluminescent



backlight. Monochrome display was originally built for a military application. 9.64" x 5.95" module size. Includes hook-up diagram.

CAT# LCD-103 \$5.50 each

640 X 480 LCD W/ CCFL BACKLIGHT 🔎 AND INVERTER

Seiko Epson # ECM-A0526. 7.07" x 5.3" graphic display module with 2-lamp CCFT (cold



cathode fluorescent tube) backlight. Includes inverter to drive the backlight. Module size: 10" x 6.25" CAT# LCD-104 \$7.50 each

2-DIGIT LCD

Two 0.5" high characters with decimals. Overall dimensions of glass display, 1.11 wide x 1.20" high. Dual row 9x2 pc pins, 0.1" centers x 1.32" between rows. CAT# LCD-200 \$1.00 each

SINGLE DIGIT LCD. 2.21" CHARACTER

Lumex # LCD-H101D22TF. Single digit glass LCD. 2.21" character height. 5V, TN, Grav. Transflective, 20 pins. Overall dimensions 76.20 x 55.88mm. CAT# LCD-221 \$2.00 each

VIDEO ACCESSORIES

AUDIO / VIDEO RF MODULATOR W/ S-VIDEO INPUT

Philips / Magnavox #PH 61159. Allows connection of video cameras and devices,



games and DVD players to TVs with F-connector input or S-Video input. Automatically switches from TV to connected component when power for that component is turned on. Accepts stereo sound inputs. Operates on 120Vac. Selectable channel 3 or 4 output. cULus. CAT# AVM-159 \$18.95 each

VIDEO BALUN

Allows use of CAT5 cable, twisted-pair. to transmit CCTV video up to 600M. BNC male one end. Balun with screw clamp terminals other end. 3" wire lead for easier access. CAT# BAL-7 \$3.75 each

RCA UNIVERSAL REMOTE

RCA# RCR412BN. Replace or consolidate your remotes with this four device universal remote. This easy to set up and easy to use remote works with over 325 brands. and programming is a breeze. Perfect for HDTV, DVR's and DVD players. It also controls digital TV converter boxes. Its backlit feature allows you to see the keys in the dark.

CAT# REM-412 \$7.95 each

SONY/WESTINGHOUSE TV REMOTE

TV remote control appears to operate all Sony TVs. No programming necessary; just point and press the button. Works on old and new Sony's, flat-screens and CRTs. It's a Westinghouse brand, probably made by Sony and branded for Westinghouse. Requires two AAA batteries (not included).



CAT# REM-4 \$2.00 each

MOST ORDERS SHIPPED WITHIN 24-48 HOURS



POTENTIOMETERS

LINEAR POTS WITH 1/4" DIA. SHAFT

All of the following pots have 1/4" dia. shafts and 3/8" dia. (3/8-32) or 7mm threaded bushings, unless otherwise specified. Shafts may be full-round, half-round or knurled.

10 meg **CAT# LTP-10M** 75¢ each 15 meg **CAT# LTP-15M** 75¢ each

25K OHM LINEAR TAPER POT

10mm long x 1/4" diameter full-round shaft. CAT# LTP-253 85¢ each



75K LINEAR TAPER POT

1/4" diameter flatted nylon shaft, 1/2" long. 3/8" diameter threaded nylon bushing. Prepped with three 6.5" leads.

CAT# LTP-75K 75¢ each

AUDIO TAPER POTS W/ 1/4" DIA. SHAFT

5K AUDIO TAPER POT W/ SWITCH

1/2 moon shaft. 9mm non-threaded bushing. Tabs, approximately 1" apart, snap-mount into chassis. On-off switch, rated 3A/125Vac, activates at end of counter-clockwise rotation. Solder terminals. CAT# ATPS-5K 75¢ each

All of the following pots have 1/4" dia. shafts and 3/8" dia. (3/8-32) or 7mm threaded bushings, unless otherwise specified. Shafts may be full-round, half-round or knurled.

50K	CAT# ATP-50K	75¢ each
50K	CAT# PT-50KA	75¢ each
7mm	threaded bushing	
250K	CAT# ATP-254	85¢ each
1M	CAT# ATP-105	85¢ each

PC MOUNT POTS

No mounting bushing. Bend tabs for support.

50K AUDIO POT 6mm split knurled shaft is 16mm long. CAT# APP-50KA 50¢ each

500 OHM LINEAR TAPER

1/4" knurled split shaft, 0.63" long. CAT# LPP-500 50ϕ each • 10 for 45ϕ each

2 MEG OHM AUDIO POT

1/4" flatted nylon shaft is 0.87" long. **CAT# APP-2M** 50¢ each

50K AUDIO POT

1/4" flatted nylon shaft, 0.91" long. CAT# APP-50K 50¢ each

POTS WITH 6MM DIA. SHAFT

1K LINEAR TAPER POT

with 6mm dia. knurled split shaft, 15mm long. 7mm threaded bushing. PC pins, can be wrapped and soldered. CAT# LPP-1K 75¢ each



10K LINEAR PRECISION POT

Tokos / Cosmos# RV Q24YN 15F B 103. High-quality, 10K Ohm, 1/4W carbon film potentiometer designed for long-life. Very smooth, precise rotation, designed for 500,000 cycles. 6mm diameter x 5mm long flatted shaft. 9mm threaded bushing. 24mm diameter body. Solder-lug terminals.

CAT# LPT-10K \$2.00 each 10 for \$1.75 each • 100 for \$1.60 each

500K TAPER POT, 6MM SHAFT

6mm diameter x 10mm split knurled shaft. 8mm diameter x 10mm threaded bushing. AUDIO **CAT# ATP-500K** 75¢ each LINEAR **CAT# LPP-500K** 75¢ each

100K LINEAR TAPER POT

6mm split knurled shaft is 8mm long. 3/8" threaded mounting bushing on top of a 0.7" long brass hex spacer. CAT# LTP-100KL 65¢ each



1.2K OHM AUDIO TAPER POTS

6mm diameter shaft. 8mm diameter threaded bushing. Solder-loop terminals. Shaft is 44mm long; 17mm end is nylon, half-moon.

CAT# ATP-1.2K 75¢ each

Center-detent CAT# ATP-1.2KD 75¢ each

50K AUDIO TAPER POT

6mm split knurled shaft, 10mm long. 7mm threaded bushing. CAT# PTT-50K 85¢ each

250K DUAL AUDIO TAPER POT

Dual element potentiometers. 6mm diameter split knurled shaft, 10mm long. 3/8-32 threaded bushing. Solder-lug terminals. CAT# PA-250K 95¢ each

250K AUDIO POT W/ SWITCH

250K Ohm, audio taper pot with DPDT, push-pull switch. 6mm knurled, split shaft. 8mm dia. threaded bushing is 13mm long. New pots - prepped with wires and a 9V battery snap. CAT# ATPS-250K \$1.00 each



POTS W/ 6MM DIA. SHAFT

6mm flatted shaft. 7mm threaded bushing.

DUAL 10K AUDIO TAPER CAT# DPA-10K \$1.00 each DUAL 10K LINEAR TAPER CAT# DPL-10K \$1.00 each



POTS W/ 1/8" DIA. SHAFT

100K LINEAR TAPER POT Centralab miniature potentiometer. 0.20" long shaft. 0.25" threaded bushing. Solder-loop terminals. **CAT# MLP-100K** 75¢ each



VISIT OUR WEBSITE - WWW.ALLELECTRONICS.COM

50K AUDIO TAPER POT

Allen Bradley Type W #2100-4-14. 50K Ohm, audio taper. 1/8" dia. x 1/4" long shaft. 1/4" dia. threaded bushing. 1/2" dia. body. Gold-plated solder terminals. CAT# ATP-503 \$1.50 each

PC MOUNT POTS

6mm diameter shafts. 0.5" long minimum. Non-threaded bushing.

Resistance 10K 10K 100K 500K 1M

Other desc Taper Audio Dual pot Linear Dual pot Audio Dual pot Audio Dual pot Audio Dual pot



All pots above are 4 pcs of one CAT# for \$1.00 . 100 pcs of one CAT# \$15.00 (no mixing)

PRECISION MULTI-TURN TRIMMERS

RECTANGULAR TRIMMER

0.75" X 0.19" high. 3/4 watt. Comparable to Bourns 3006P Beckman 89PR, Weston 830P, AB 94P 200. 500. 2.2K. 10K. 20K CAT# RTP-xxx \$1.25 each (xxx = resistance)

15K 15 TURN TRIMMER

Weston 503 1009. 3/8" square, side-adjust, 15-turn precision trimmer. In-line pc pins on 0.1" centers. CAT# PTR-15K \$1.25 each



MULTITURN TRIMMER POT

Precision 20-turn trim pot. 3/8" square, topadjust. Leads in straight row on 0.10" centers. 500, 10K, 20K, 50K

CAT# MTPS-XXX \$1.25 each (xxx = resistance)

SINGLE TURN TRIMMERS

10K ALLEN BRADLEY TRIMMER

Allen Bradley Type E. 10K Ohm, single-turn trimmer potentiometer. 10mm square. PC leads in triangular pattern, 5mm centers w/ wiper lead in middle. CAT# TRP-10K 2 for \$1.00



SINGLE TURN TRIMMER POTS

7mm square trimmer. Two leads are on 5mm centers. Middle (wiper) lead is 5mm from the center of the other leads. Available values: 500, 5K, 10K, 50K, 100K, 150K, 500K CAT# TPS-XX or XXX (no mixing values) XXX=value in ohms, ie TPS-10K 4 for \$1.00 • 100 for 18¢ each

1K VERTICAL ADJUST TRIMMER

Piher #PT10LV0 1K 20%, 10mm dia, cermet trimmer. Outer PC pins on 5mm centers. CAT# TPR-1K 5 for \$1.00 • 100 for 15¢ ea.

TOP ADJUST

3/8" square X 3/16" high. 1/2 watt. Comparable to Bourns 3386P, Beckman 72PR and Spectrol 63P. 500, 50K CAT# STP-xxx 75¢ each



TRIMMERS

3-pins, triangular pattern. 0.2" between outer pins.

10K	CAT# TPT-10K
2.2K	CAT# VTP-2.2K
4.7K	CAT# VTP-4.7K

10 for \$1.00 • 100 for \$7.00

100 OHM TRIMMER POT

0.26" square, screwdriver adjust potentiometer. Unusual lead configuration. The two outside leads are 0.82" long while the center lead is a standard length pc lead. The two rear leads are on 0.15" centers. CAT# TP-100 10 for \$1.00 • 100 for \$7.00

200 OHM TRIMMER POT

Old-style pc style trimmers. 0.6" dia. thumbwheel adjuster. Two pc leads on 0.30" centers with two bend-tab wiper terminals. CAT# TPT-201 10 for \$1.00

1 MEG OHM THUMBWHEEL TRIM POT

0.7" dia., old-style trim pot. PC leads on 0.4" centers. Center wiper terminal is on opposite side from other leads. CAT# TPT-1M 10 for \$1.00 100 for 6.5¢ each • 500 for 4¢ each



32 OHM WIRE-WOUND TRIMMER POT

20mm dia. Screwdriver adjust. Two mounting ears with holes on 1" centers. CAT# TPW-32 50¢ each



5K WIRE-WOUND TRIMMER

Screwdriver adjust. Horizontal pc mount. 19.5mm dia. x 11mm thick. Pins on 0.25" centers.

CAT# TPW-5K 3 for \$1.00

SLIDE POTS

SLIDE POTS, 65MM TRAVEL

Slide potentiometers with mounting holes on 80mm centers. Slide

travel, 65mm. Overall length, 88mm. Metal sliders, 1.2mm thick x

3.5-4mm at tip. Single-element if not otherwise noted. "C-detent" indicates a center-detent, a tactile

bump in the center of slide travel.

Res.	Taper	Desc	CAT#	Price	<u>10+</u>
10K	Linear	4-element	SLP-10K4	\$1.00	80¢
20K	Linear	C-detent	SLP-20KS	\$1.00	80¢
20K	Linear		SLP-20KL	\$1.00	80¢
50K	Linear	2-ele.,C-det.	SLP-50K	\$1.00	80¢
50K	Linear	C-detent	SLP-50KS	\$1.00	80¢
100K	Audio	4-element	SLP-100K4A	\$1.00	80¢
100K	Audio	2-element	SLP-100KA	\$1.00	80¢

20K LINEAR SLIDE POT. **OPEN FRAME**

Bourns # SSHA20B20300.

Low-profile, unenclosed slide potentiometer. 20K Ohms, linear taper. Black plastic slider, 0.85" travel. 0.2" overall thickness when mounted. Four pc leads on 1.17" x 0.33" centers. CAT# SP-20K 2 for \$1.00

20K OHM SLIDE POTENTIOMETER

Stackpole Slide-trol 119. 20K Ohm, audio taper slide pot. 35mm slide travel. Mounting tabs on 52mm centers. 19mm long x 2.5mm x 3.5mm slider. PC leads.







5K AUDIO MINI-SLIDE POTENTIOMETER



Small 5K Ohm, audio taper slide pot. Body dimensions, 30 x 8 x 7mm high. Tapped mounting holes on 26mm centers. Slide travel, 17mm. PC terminals. CAT# SP-5KA \$1.00 ea.

KNOBS

KNOBS FOR 1/4" SHAFT

Black plastic knob for 1/4" round shaft with raised red face, serrated circumference and raised white pointer line down one side, 0.52" diameter x 0.60" high, Brass insert and set screw. CAT# KNB-124 75¢ each • 10 for 65¢ each



1.1" WHITE POINTER KNOB FOR 1/4" FLATTED SHAFT

1.1" dia, x 0.53" off-white knob. Serrated circumference. Shank extends 0.25" below knob. Metal insert fits 1/4" dia. flatted shaft. CAT# KNB-245 60¢ each

33MM KNOB FOR FLATTED 1/4" SHAFT

33mm diameter x 12mm high off-white plastic knob for 1/4" flatted shaft. Metal insert. CAT# KNB-239 50¢ each • 10 for 45¢ each



1.5" GOLD PAINTED KNOB FOR 1/4" HALF-MOON D-SHAFT

Shiny, golden-painted instrument knob for 1/4" half-moon D-shaft. 1.5" diameter x 0.39" thick. May have some scratches. CAT# KNB-256 4 for \$1.00

KNOBS FOR 6MM FLATTED SHAFT

Good-looking aluminum knob with plastic insert for flatted 6mm shaft. 15mm dia. x 16mm high. Fluted circumference. Brushed aluminum face with pointer groove. CAT# KNB-243 65¢ each 10 for 50¢ each • 100 for 40¢ each



KNOBS FOR 1/8" SHAFT

Black plastic knob with raised white pointer line. Brass inserts and set screws. 0.45" dia. skirt at base, 0.31" dia. at top, 0.40" high. CAT# KNB-127 \$1.10 each

10 for 95¢ each



18mm dia. x 15.5mm high black phenolic knob with serrated edge and brushed aluminum face. Brass insert w/ set screw. CAT# KNB-250 \$1.25 each

Dark-brown plastic knob with metal insert. Fits 1/8" dia. half-round shaft. 0.9" diameter x 0.53" high. Serrated circumference.



CAT# KNB-218 65¢ each 0.5" black aluminum knob. Apem # MKCB-500B-1/8-7. Black, machined aluminum control knob. Base is 0.5" dia. x 0.32" high. Top portion of knob is rectangular,

0.49" x 0.22" x 0.44" high. A black pointer groove is etched into one side of knob. Two set screws. CAT# KNB-231 \$1.50 each

25 for \$1.35 each • 100 for \$1.15 each 64

18MM DIAMETER x 19mm high serrated black plastic knob. Brushed aluminum face with black pointer line. Brass insert with two set screws.

CAT# KNB-252 \$1.15 each

18MM DIAMETER x 15mm high serrated black plastic knob. Black face with white pointer line. Brass insert with set screw. CAT# KNB-253 \$1.00 each



KNOBS FOR 6MM KNURLED SHAFT

SOFT TOUCH KNOB

Dark gray rubberized pointer knob for 6mm knurled shaft. Light grey raised pointer line and base. 0.40" diameter top, 0.52" diameter skirt, 0.70" high.

CAT# KNB-126 65¢ each • 10 for 50¢ each

Black rubberized pointer knob for 6mm knurled or 1/2 moon shaft. New 16mm diameter skirt. 10.5mm diameter at top. 15mm high. Raised, gray plastic pointer line.

CAT# KNB-257 65¢ each 10 for 50¢ each

KNOB W/ POINTER LINE

Black plastic with fluted circumference, 19mm diameter at base, 14mm diameter at top, 21mm high. Face with pointer line is a separate disc which can be positioned before or after the knob is in place. CAT# KNB-251 50¢ each 10 for 40¢ each

BLACK PLASTIC KNOB

Raised red face with black pointer line. 0.38" dia. top, 0.52" dia. base, 0.65" high. CAT# KNB-125 50¢ each 10 for 45¢ each

SERRATED BLACK KNOB FOR 6MM KNURLED SHAFT

18mm diameter x 15mm high flat-black plastic knob. Serrated circumference. Flat, plain face. CAT# KNB-248 55¢ each

KNOB W/ POINTER LINE

0.71" diameter x 0.68" high black plastic knob with white pointer line on face. Ribbed circumference. CAT# KNB-219 60¢ each • 10 for 50¢ each

SILVER POINTER KNOB

Silver plastic pointer knob. 20mm dia. at bottom, 18mm dia. at top, 15mm high CAT# KNB-234 50¢ each



For slide pots with 1.2mm thick x 3.5-4mm sliders.

20MM X 17MM CURVED FACE Black plastic, Curved, ribbed face. White center-indicator line. CAT# KNB-246 65¢ each 10 for 50¢ each

Chrome knob with flat black rectangular face. Mounts vertically. 0.58" X 0.31" X 0.65" high.





CAT# KNB-247 40¢ each FAX YOUR ORDER 24 HOURS A DAY (818) 781-2653











UTILITY CASES

LEATHERETTE BELT POUCH

Black leatherette pouch with belt loop is ideal for small test equipment, audio/video accessories, tools, cameras. Velcro® pocket flap. 1.6" square interior pocket for memory sticks or lenses. Exterior dimensions: 4" x 3.5" x 1.5" CAT# CSE-70 95¢ each



10 for 85¢ each • 100 for 65¢ each

BALLISTIC NYLON CASE W/ VENTILATED PANEL

Zippered ballistic nylon case with ventilated mesh panel on one side. Probably designed for a medical application, a company logo is

stitched in the back panel. Good-quality ballistic nylon on four sides, the front panel is a stretchy blue material with small ventilating holes. Webbed nylon welt reinforcement on zipper and all edges. 9.0" x 8.0" x 2.0".

CAT# CSE-113 \$3.00 each

PADDED CARRYING CASE

Carrying case, padded on all sides. Interior compartmentalized with 2 larger compartments approximately 2.5" x 5" x 4.5" and three smaller compartments. Webbed nylon handle. Clear plastic business card holder on outside top. The case zips closed. Made of weather-resistant material with reinforced edges. 6.5" x 5" x 5.5" high. CAT# CSE-114 \$3.75 each



Originally designed to carry 8.9" ASUS EeePC 900 series mini-laptops. Well constructed. hard-shell. zippered case for lasting protection. Webbed storage compartment. Velcro™

strap to hold device securely in place. Outside dimensions approximately 10" x 7.5" x 1.5" deep, so it should also be okay for other small tablets and eBook readers up to 8.9" x 6.7". CAT# CSE-352 \$5.00 each

PROTECTIVE CASE FOR LAPTOP COMPUTER

Safely and securely carry and store your laptop computer. Padded 600 denier triple layer ballistic polyester. Custom fitted inner neoprene sleeves. Ultra soft lycra prevents scratching. Adjustable shoulder strap.



Fits 13" MacBook Pro® & other low-profile laptops. CAT# CSE-013 \$7.95 each

Fits 15" MacBook Pro® & other low-profile laptops. CAT# CSE-015 \$8.50 each

POUCH FOR GLASSES

Cotton pouch with a springsteel automatic closure.



Dark gray cloth with medium-gray writing, "A. Eagle CAT# CSE-62 \$1.00 each Co. 1977."

PADDED MINI-POUCH

Ballistic nylon mini-pouch with keyring. Zipper closure. Interior elastic strap. Carry and store small



items like removable memory cards, thumb-drives, stereo in-ear earphones, plug and jack adapters. Internal dimensions 2.5" x 1.6" x 0.6". CAT# CSE-83 50¢ each

50 for 40¢ each • 100 for 35¢ each

RUBBER BUMPERS/FEET **CLEAR SELF-ADHESIVE**

BUMPERS / FEET

Self-adhesive polyurethane bumpers apply quickly and easily wherever protection is needed against scratches, slippage or noise.

0.8" diameter x 0.4" high clear feet with 0.35" dia. recessed center Sold in sheets of 24 pcs.

CAT# RF-32

1 sheet (24 pcs) for \$4.50 per sheet 12 sheets (288 pcs) for \$3.80 per sheet

Solid cylindrical clear bumper, 0.4" dia. x 0.25" high. Sold in sheets of 50 pcs.

CAT# RF-33 1 sheet (50 pcs) \$3.50 per sheet 10 sheets (500 pcs) \$2.65 per sheet

0.7" diameter x 0.15" high. Clear. 49 per sheet. **CAT# RF-53**



\$3.50 per sheet 10 sheets (490 pcs) \$2.65 per sheet

1.46" DIA. RUBBER FEET

Hard rubber equipment foot. Countersunk, metal reinforced hole for #8 screw. Black.



1.46" diameter x 0.59" high CAT# RF-615 4 for \$1.80 • 100 for \$30.00

1.46" diameter x 0.41" high CAT# RF-605 4 for \$1.70 • 100 for \$28.00

STORAGE CONTAINERS

See-through ABS plastic storage container with dividers. For hardware, hobby, fishing, automotive. 15" x 12.25" x 2.3" 21 compartments with movable dividers. CAT# SB-11 \$12.95 each



10.15" x 7" x 1.7" plastic organizer. 18 compartments with removable dividers allowing the compartments to expand for larger items. Snaps shut. CAT# SB-7 \$5.75 each

CAPACITORS

RADIAL ELECTROLYTIC

				enner der	
UF	Volts	1+	10+	100+	1000
.22	50	.10	.06	.04	
.47	50	.15	.13	.10	
1	50	.15	.10	.06	
2.2	50	.15	.10	.06	
2.2	160	.20	.16	.12	
3.3	50	.12	.08	.05	
4.7	50	.10	.08	.05	
4.7	100	.15	.10	.07	
10	16	.10	.06	.04	
10	35	.10	.08	.05	
10	50	.12	.10	.06	.04
22	16	.13	.10	.08	
22	25	.16	.14	.11	
22	50	.10	.08	.05	
22	400	.45	.40	.30	.23
33	16	.12	.10	.07	.04
33	25	.18	.14	.10	
33	35	.19	.15	.11	
33	50	.18	.09	.06	.04
47	16	.15	.10	.07	
47	35	.17	.15	.13	
47	50	.16	.11	.07	
100	16	.15	.12	.09	
100	25	.20	.18	.15	
100	35	.27	.25	.22	
100	50	.30	.25	.20	
120 220	400	1.60	1.40	1.20 .18	.11
220	25	.23	.20	.10	
220	35 50	.25 .25	.22 .14	.21	
330	50	.25	.14	.12	
330 470	10	.27	.25	.22	
470	16	.11	.10	.00	.06
470	25	.20	.10	.10	.00
470	25 35	.30	.25	.13	
470	50	.45	.40	.26	
1000	16	.40	.30	.25	.15
1000	25	.45	.35	.30	
1000	35	.48	.45	.40	
1000	50	.80	.70	.55	
2200	10	.20	.15	.08	
2200	16	.60	.55	.45	
2200	35	1.00	.85	.65	
2200	63	1.40	1.15	.90	
3300	16	.70	.65	.50	
3300	35	1.45	1.30	1.20	
3300	50	1.60	1.45	1.30	
4700	25	1.25	1.10	.95	
4700	63	1.65	1.55	1.20	

To order radial electrolytic capacitors CAT# <u>uf</u> R <u>v</u> i.e. 10uf @ 35v = CAT# 10R35

SNAP-IN CAPACITORS



CAT# EC-47250 35¢ each • 100 for 20¢ each

68 UF 400V Nichicon CE 105°C GQ (M). 26mm x 23mm dia. 10mm lead spacing. **CAT# EC-6840** 75¢ each • 10 for 65¢ each

180UF 400V

Matsushita (Panasonic) Type UQ 85°C. 22mm diameter x 31.5mm long. Snap-in leads on 10mm centers. **CAT# EC-1840** \$1.75 each 10 for \$1.60 each

220 UF 350V Nippon Chemi-con 75Q068. 30mm x 30mm dia.. 105°C. 10mm lead spacing. **CAT# EC-22350**

\$1.50 each • 10 for \$1.25 ea. 220 UF 450V

Rubycon CE, 85°C. 30mm dia. x 36mm high. Leads on 0.4" centers. **CAT# EC-2245** \$2.00 each 10 for \$1.75 each

420UF 500V Panasonic CE TUP. 40mm dia. x 52mm long. 85°C. **CAT# EC-4250** \$3.60 each

470 UF 200V Nichicon CE 105C GX (M). 30mm diameter x 31mm high. Snap-in pc leads 10mm centers. CAT# EC-4720 75¢ each

1200 UF 200V Nichicon CE 85°C LU (M). 49mm x 25mm dia. 10mm lead spacing. **CAT# EC-1220** \$1.50 each

2700 UF 200 V Panason. CE THA 200V 2700uF(M) 35mm dia. x 62mm high. 105°C. Four leads - two are for support. **CAT# EC-2027**

-\$2.15- \$1.50 each PRICE ! 4700 UF 35V

SMH 85°C. 22mm diameter x 31mm long. Snap-in leads on 10mm centers.

CAT# EC-4735 \$1.25 each

6800 UF 63 V Nippon Chemi-con 11H01L. SMH 85°C. 30.5mm dia. x 41.5mm long. PC terminals, 0.4" centers. **CAT# EC-6863** \$2.50 each

 15,000 UF 50V
 10.0m

 Matsushita (Panasonic)
 5mm I

 CE 85°C. 30mm dia. x 51mm high.
 CAT#

 CAT# EC-1550 \$3.30 each
 100 fr

 RDER TOLL FREE 1-800-826-5432
 1-800-826-5432

HIGH VOLTAGE CAPS

4.7 UF 250 VOLT CAT# 4.7-250R 30¢ each • 10 for 25¢ ea. 100 for 15¢ each

22UF 200 VOLT CAT# 22-200R 35¢ each 10 for 30¢ ea. • 100 for 20¢ ea.

22UF 400 VOLT RADIAL

16mm diameter x 27mm long. 8mm lead spacing. **CAT# 22R400** 45¢ each 100 for 30¢ each 1000 for 23¢ each

22UF 400V RADIAL 臧

20mm dia. x 16mm long. Pre-cut, 5mm long pc leads. CAT# 22R400S

55¢ each • 100 for 40¢ each

47UF 450V RADIAL

ELECTROLYTIC Nichicon PB(M) 105C. 0.8" dia. x 1.03" high. Cut leads, 0.15". CAT# 47R450S



\$1.00 each • 100 for 80¢ each 200 for 75¢ each

120 UF 400V RADIAL ELECTROLYTIC

16mm dia. x 35mm long. 6mm lead spacing. 105°C. **CAT# 120R400** \$1.60 each 10 for \$1.40 each

150 UF 250 VOLT RADIAL CAT# 150R250

60 each • 100 for 45 each

1000UF 100V RADIAL ELECTROLYTIC

Nichicon PW(M) 105°C. 18 mm dia. x 42mm long. Radial leads, 8mm centers.

CAT# 1000R100 \$1.40 each 100 for \$1.15 each

ELECTROLYTIC SPECIALS

 33UF 50V RADIAL
 0.21" dia. x 0.4" long

 0.21" dia. x 0.4" long
 0.4" cach

 CAT# 33R50
 10 for 9¢ each

 100 for 6¢ ea. • 1000 for 4¢ ea.

22UF 35V AXIAL 6.3mm diameter x 13mm long. 85°C. CAT# 22A35 15¢ each 10 for 13¢ each

100 for 9¢ each

470 UF, 25V RADIAL 10.0mm diameter x 17.5mm. 5mm lead spacing. 85C. **CAT# 470R25S** 10 for \$1.50 100 for 12¢ ea. • 600 for 6¢ ea.



Screw terminals. CAT# EC-335 \$4.75 each

10 for \$4.50 each

PHOTOFLASH CAP

270 uF, 330 WV. 0.6" dia. x 1.77" h. Lead length, 0.45". Removed from new equip. CAT# PPC-273 \$1.00 each • 10 for 85¢ each 100 for 70¢ each

> MEMORY BACK-UP "SUPERCAPS"

High-capacitance capacitors. Slowly release charge to provide back-up power in temporary shut-down situations.

0.22 FARAD, 5.5V Panasonic # EEC-S0HD224H 10mm dia. x 5mm high. PC leads on 11mm centers CAT# CBC-19 \$1.10 each 200 for 90¢ each

1 FARAD 2.5V

8mm dia. x 10.5mm long. Crimped radial leads on 5mm centers. **CAT# CBC-22** 65ϕ each 100 for 50 ϕ each

4.7 FARAD, 2.5 VOLT

0.50" diameter x 1.26" high. Leads on 0.2" centers. **CAT# CBC-18** \$3.85 \$2.50 each 10 for \$2.25 each

120 PIECE ELECTROLYTIC CAP SET 10 VALUES 1UF-1000UF

120 radial electrolytic capacitors. Values from 1 uf to 1000 uf. 15 pieces of 1uf, 2.2uf, 4.7uf, 10uf, 22uf, 47uf, 100uf (50 Vdc). 5 pieces of 220uf, 470uf, 1000uf (25Vdc) CAT# CK-2 \$19.50 each

1000 PF CAPACITOR-TYPE NOISE SUPPRESSOR

Murata # DSS6NC52A102Q91A. 3-leaded, EMIFIL® 1000pf filter. Rated 6A, 100V. 8 x 2.54 x 7mm h. CAT# NCP-102 5 for \$1.00 100 for 10¢ each

	CERA		DISC CA	PACITO	RS		
	CERA <u>CAT #</u> 5D3K 100D50 150D1K 220D50 470D50 101D50 201D1K 271D50 331D50 471D50 561D2.5K 821D50 102D50 152D50 222D50 332D50 332D50 332D50	Cap 5 pf 10 p 15 p 22 p 47 p 100 200 220 270 330 470 560	acitance f f f pf pf pf pf pf pf pf of uf 5 uf 3 uf 3 uf	Voltage 3000 50 1000 50 50 50 50 50 50 50 50 50	10 .10 .06 .06 .06 .06 .06 .10 .06 .06 .06 .06 .06 .06 .06 .06 .06 .0	100 .08 .05 .05 .05 .05 .05 .05 .05 .05 .05 .05	1000 .06 .035 .035 .035 .035 .035 .06 .035 .035 .04 .035 .04 .035 .035 .035 .035 .035 .035 .035 .035
ər	103D50 103D1K 223D50 473D50 104D50	.01 u .01 u .022 .047 .1 uf	uf uf uf uf 10 piec	50 1000 50 50 50 e per item			.035 .10 .06 .06
						ORS	
			•	of one value			4000
	value 100 pf 680 pf 1000 pf 4700 pf 4700 pf 0.01 uf 0.1 uf 0.1 uf 1 uf	volt 50 50 100 50 100 50 50 50 500 50	CAT# CM-101 RM-681 CM-102 CM-472/ CM-472 CM-472 CM-103 RM-104 RM-1040 RM-105	.09 .08 .08	100 .04 .045 .07 .05 .08 .07 .07 1.00 .18	500 .03 .035 .06 .04 .07 .06 .06 .16	1000 .025 .03 .05 .035 .06 .05 .05 .15
	AXIAL	CER	AMIC C	APS -			
R	33pF 100pF	100)V S)V S	<u>AT#</u> A-330 A-101 A-151	<u>Price</u> 10 for \$1. 10 for \$1. 10 for \$1.	00 00 00	100 .07 .07 .07
	150pF 820pF 0.015uF 0.01uF 0.1uF 0.1uF 0.22uF 56,000pF	100 100 50\ 50\ 100 50\	0V SA / SA / A 0V SA / SA	A-821 A-153 A-103 M-104 A-104 A-224 A-563	10 for \$1. 10 for \$1. 10 for \$1. 10 for 90g 5 for 75¢ 10 for \$1. 10 for \$1.	20 00 £	.07 .08 .07 .06 .12 .07 .07
	820pF 0.015uF 0.01uF 0.1uF 0.1uF 0.22uF 56,000pF	100 100 50\ 50\ 100 50\ 50\	0V S/ / S/ / A 0V S/ / S/ / S/	A-153 A-103 M-104 A-104 A-224	10 for \$1. 10 for \$1. 10 for 90g 5 for 75¢ 10 for \$1. 10 for \$1.	20 00 ¢ 00 00	.08 .07 .06 .12 .07 .07

0.15" diameter X 0.39" long. **CAT# MCB-104** 10 for 80¢ • 100 for \$5.00

DIPPED TANTALUM

MFD	VDC	CAT#	Price	<u>100</u>	
1	35	DT-25	3 for \$1.00	25¢ each	63.53
3.3	10	DT-35	5 for \$1.00	13¢ each	E
4.7	16	DT-40716	4 for \$1.00	17¢ each	
4.7	25	DT-40725	35¢ each	25¢ each	23
10	16	DT-1016	3 for \$1.00	25¢ each	
10	25	DT-1025	2 for 80¢	30¢ each	
10	35	DT-1035	90¢ each	65¢ each	
15	25	DT-1525	2 for \$1.00	40¢ each	
22	16	DT-2216	50¢ each	40¢ each	
33	10	DT-3310	65¢ each	50¢ each	
100	6	DT-4	2 for \$1.00	40¢ each	

EMAIL US - allcorp@allcorp.com

	100 V0		YEST	ER			MY			RS
	~	(RADIAL				(AYL	AL STYLE	-	033#F1 200 Vi	-
MFD	CAT#	<u>1+</u>	10+	100+	1000	MFD	VOLT	CAT#	EACH	100
.001	RMC-102		.08	.06	.05	.0015		AMC-3	10¢	\$6.0
.0047	RMC-472		.08	.06	.05	.0022		AMC-5	10¢	\$6.0
.022	RMC-223		.09	.07	.06	.0047	200	AMC-8	10¢	\$6.0
.033 .047	RMC-333 RMC-473		.11 .11	.08 .08	.07 .07	.0068	200	AMC-10	10¢	\$6.0
.047	RMC-683		.12	.00	.07	.082	100	AMC-25	10¢	\$6.0
.082	RMC-823		.12	.09	.08	.18	160	AMC-49	10¢	\$6.0
.22	RMC-224		.19	.17	.15	.68	50	AMC-72	10¢	\$6.0
.47	RMC-474	-	.32	.29	.25	.68	100	AMC-90	12¢	\$7.0
		I-METAL					RADIAL	MYLAR	CAPA	CITOF
Tape an	id reel packa	iging.			-	MFD	VOLT	CAT#	EACH	100
0.001 U	F (1nF) 100	V . 7X2X6	mm hio	ah.		68pf	50 100	RMC-1	10¢	\$6.00
	MMC-102					.002		RMC-339 RMC-324	15¢ 20¢	\$8.00 \$15.0
6 for \$	1.00 • 10	0 for 10¢ e	each	5	•	.0022		RMC-324 RMC-45	20¢ 10¢	\$6.00
0.046	400 1/-14 40					.0066		RMC-1682	'	\$15.0
	, 400 Volt 10 MMC-103		00			.0068		RMC-337	20¢	\$15.0
	r 10¢ each			ach		.0299	9 50	RMC-315	10¢	\$6.00
	or 8¢ each		,			.033	100	RMC-333	15¢	\$8.00
10001	or oc eaci	• 2500 1	UI OÇ	each		.039	50	RMC-100	10¢	\$6.00
0.1 uf, 1	100 Volt 5%					.056	50	RMC-340	12¢	\$9.00
CAT#	MMC-104					.1	NA	RMC-341	20¢	\$15.0
4 for \$	1.00 • 10	0 for 21¢ e	each			.15	250	RMC-326	20¢	\$15.0
500 foi	r 19¢ each	• 1250 for	• 15¢ e	each		.22	50	RMC-336	17¢	\$14.0
POI Y	PROPYL	ENE EII		PACI	TORS	.33	100	RMC-321	20¢	\$17.0
						2.2	250	RMC-225	\$1.00	
	f 250V rad			25	1MA 00 50-	ME	TALLIZE	D POLYE	STER	FILM
	.5 x 2.5mm. FC-100 1	0 for \$1.0			(N I			CAT#	eacl	<u>100 100 100 100 100 100 100 100 100 100</u>
	r \$8.00	0 101 \$1.00	J			0.01	uF 400V		.20	.12
		_				0.1 ul	F 400V	RMF-104	.50	.35
0.004	7uF, 100\	/		D		0.22				.12
	al capacitor.	•		nm dia.		0.47	uF 250V	RMF-474	.40	.29
CAT#	AFC-472	25¢ each					e & Reel Sp			
.01 uf	100V 5%	radial		1		1uF	250V pieces for +		A .65	.55
CAT#	FC-103	10 for 9¢ e	ach			000	+ pieces ioi	45¢ each		
100 for	r 7¢ each	 1000 for 	6¢ ea	ach			MO	TOR CAPA		RS
1500	pF 100V	5% radial		1	1500 100-A	3 506	, 250V			-
	FC-152	10 for 8¢	each		U7		-	1. Max temp	85°C	0
	r 6¢ each			ach			x 11.0 x 22	•		3.
			0 0 0			0.187	" qc/solder	terminals. U	L.	250VAC
2.2 UI	F 275 VA	C EMI		1	Transferrar .		# MPC-3.			RI® (
SUPP	RESSIO	N CAP			MERITEK MEX/MKP X, 2.2 UF K 275%C 40/103/2160 0300000 91 00 132460 ((
	MEX/MKP I			ea	CN 133400 ((250VAC		170 VAC			A R.
	pylene capao		x 30m	m high.			e #M72533	3.		TECATE
	ead spacing.		_				%/+85°C.	v 60mm long	1 " nia	toil lood
CAT#	-	\$1.00 eacl	1				# MPC-11	x 60mm long \$1.35 e		lan lead
-	YSTYRE			NPG. 4000J	/			+		
CA	PACITOR			9			TI	RIM CAPA	CITO	R
NPC 40	PF 000J 4000	CAT# CS-402	Pri	ce or 50¢	100 \$7.00			89-503-5. P		
NPC 47				or 50¢	\$8.00			- 9.2 pF @ 6		
NPC 50				or 50¢	\$7.00			1.3mm squai	,	m high.
	1000			or 60¢	\$7.50		# TCP-50 or \$2.75 ea		acn	
	1800	0 CS-183	5 fc	or 75¢	\$8.00		r \$2.75 ea CITORS	ach		
DE	Valte	Dimensia	20					Drice		100
<u>PF</u> 6.8	<u>Volts</u> 100	Dimensio 10 x 7 x 2	115	<u>Leac</u> 6mm	<u>d Spaci</u> 1	ng	<u>CAT#</u> DMCP-6.8	Price 8 5 for \$1		<u>100</u> 15¢ eac
82 10%		10 x 7 x 2 11 x 8 x 4		6mm			DMCP-82			20¢ ead
150 5%		11 x 6 x 3		6mm			DMCP-02			20¢ ead 20¢ ead
200 5%		15 x 12 x	3mm			t leads)	DMCP-20			35¢ ead
470 5%		18 x 10 x			m (cut l		DMCP-47			30¢ ead
1100 59		11 x 8 x 8		6mm		,	DMCP-11			25¢ ead
2400 29	% 100	18 x 11 x	5mm	11m	m		DMCP-24	2 40¢ ead	ch	30¢ ead
68					-		-800-826			

CAPACITORS

(AXIAL S	STYLE)		033#F1204 200 VDC	
MFD	VOLT	CAT#	EACH	100
.0015	100	AMC-3	10¢	\$6.00
.0022	100	AMC-5	10¢	\$6.00
.0047	200	AMC-8	10¢	\$6.00
.0068	200	AMC-10	10¢	\$6.00
.082	100	AMC-25	10¢	\$6.00
.18	160	AMC-49	10¢	\$6.00
.68	50	AMC-72	10¢	\$6.00
.68	100	AMC-90	12¢	\$7.00

LAR CAPACITORS

MFD	VOLT	CAT#	EACH	100	
68pf	50	RMC-1	10¢	\$6.00	393K
.002	100	RMC-339	15¢	\$8.00	
.0022	800	RMC-324	20¢	\$15.00	25
.0033	100	RMC-45	10¢	\$6.00	1 1
.0068	50	RMC-1682	20¢	\$15.00	
.0068	400	RMC-337	20¢	\$15.00	
.0299	50	RMC-315	10¢	\$6.00	
.033	100	RMC-333	15¢	\$8.00	
.039	50	RMC-100	10¢	\$6.00	
.056	50	RMC-340	12¢	\$9.00	
.1	NA	RMC-341	20¢	\$15.00	
.15	250	RMC-326	20¢	\$15.00	
.22	50	RMC-336	17¢	\$14.00	
.33	100	RMC-321	20¢	\$17.00	\frown
2.2	250	RMC-225	\$1.00	\$80.00 (NEW

OLYESTER FILM CAP

		CAT#	<u>each</u>	<u>100</u>
0.01 uF	400V	RMF-103	.20	.12
0.1 uF	400V	RMF-104	.50	.35
0.22 uF	250V	RMF-224	.20	.12
0.47 uF	250V	RMF-474	.40	.29
Tape 8	Reel Spec	ial!		
1uF	250V	RMF-105A	.65	.55

CAPACITORS



mm long. 4" pigtail leads. UL. \$1.35 each

CAPACITOR

35¢ each

30¢ each 25¢ each

30¢ each

50¢ 50¢ 60¢ 75¢	\$8.00 \$7.00 \$7.50 \$8.00	0.010" CAT#	air gap. 11.	9.2 pr @ 0500. 3mm square, 13 \$3.00 each h		
DIP N		APAC	ITORS			
Lead	Spacing	g	CAT#	Price	<u>100</u>	
6mm	n		DMCP-6.8	5 for \$1.00	15¢ each	7
6mm	n		DMCP-82	4 for \$1.00	20¢ each	
6mm	n		DMCP-150	4 for \$1.00	20¢ each	

ORDER TOLL FREE 1-800-826-5432

SPEAKERS

20 MM, 32 OHM SPEAKER

Hosiden # HDR0990. 20mm (0.80") dia. x 0.10" thick. 32 Ohms. Peel-off adhesive ring of tape on speaker face. Solder leads. Large quantity available.



CAT# SK-230 2 for \$1.00 • 100 for 40¢ ea. 700 for 30¢ each • 1400 for 20¢ each

20 MM, 150 OHM SPEAKER

Hosiden HDR960. 20mm, 150 ohm dynamic element. 0.79" diameter x 0.1" thick. Large quantity available. **CAT# SK-215** 2 for \$1.00 100 for 40¢ each • 1000 for 25¢ each



MINIATURE FULL RANGE SPEAKER

VECO 40RE08-1. Amazing sound from a 40mm speaker. 8 Ohm 3W. 40mm diameter x 18.6mm in depth. Paper cone with soft surround. Metallized center cone. Solder terminals.

Specs: SPL 85 dB

Operating Temp. -20...+60°C Lowest Resonant Frequency 190 Hz Frequency Range 100 - 20000 Hz CAT# SK-408 \$2.25 each

300 OHM, 40MM SPEAKER

40mm diameter x 8mm thick. Solder spot connections. CAT# SK-300 \$1.50 each



50MM, 40 OHM SPEAKER

40 Ohm, 0.2W speaker. 50mm dia. x 10mm thick. Prepped with 5" leads and a 0.1uf capacitor bridging the speaker terminals.

CAT# SK-400 \$1.30 ea. • 100 for \$1.05 ea.

50MM 4 OHM SPEAKER

4 Ohm, 2 Watt speaker. 50mm overall diameter. 17mm thick. **CAT# SK-504** \$1.25 each 100 for \$1.00 each



8 OHM 40MM SPEAKER

40mm diameter x 6mm thick. 8 Ohm, general purpose speaker. 2" leads with 2-conductor female connector, 2mm centers. Large quantity available. **CAT# SK-840** 75¢ each 10 for 70¢ each • 100 for 60¢ each

2" 8 OHM SHIELDED SPEAKER

GTECH 24-1626-02 2" dia. cone with rolled poly edge. Mounting holes on two 3/8" centers. Shielded magnet. Overall, behind-panel depth, 1.33". Two 3.5" leads with connector. CAT# SK-201 \$2.10 each

2" 4 OHM SPEAKER

Boston Acoustics# 304-050001-00 2" cone with soft rolled edge. 4 Ohm impedance. Shielded magnet. Overall depth, 1.61". **CAT# SK-304** \$2.00 each 10 for \$1.75 each



2 1/4" SPEAKER, 8 OHM 0.2W



2.25" (57mm) speaker. 8 ohm @ 0.2 W. 19.40mm deep. CAT# SK-288 \$1.10 each

2-1/4" 63 OHM SPEAKER

63 Ohm, 0.25W speaker. Square frame, 2.27" x 2.27" x 0.72" thick. CAT# SK-63 \$1.25 each 100 for 90¢ each



3.5" ROUND PIEZO

3.5" dia., wide dispersion piezo tweeter. 60 Watts RMS @ 5 KHz. Frequency response, 3.5 - 30 Khz. 96 db @ 1W/ 1m.



CAT# GT-1056 \$3.50 each

SATELLITE SPEAKERS W/ BRACKET

Compact, wall-mount satellite speakers. Good quality, mid to high-range shielded drivers with 2" diameter, soft-edge cones. 4 Ohm impedance. Matte-black, sealed cabinet with sound-damping material inside. Each speaker is 2.9" square x 4.4" Iong. Adjustable wall-mount swivel brackets. **CAT# SK-331** \$9.00 pair 20 for \$8.00 per pair





PAGING HORN

Universal# SP-20B. Horn-type communication speaker. 20 Watt 8 Ohms. 5.25" diameter x 6" long. 3-hole adjustable mounting bracket. 12" leads. CAT# PHS-20 \$9.95 each



COMMUNICATION SPEAKERS

Motorola # FTN6078A. Compact external speaker designed for discontinued Motorola M800 CDMA phone. 4 ohm speaker in a solid plastic enclosure, 106mm x 62mm x



48mm with adjustable mounting bracket. 6.5' 2-conductor cable terminates to 2 pin socket connector.

CAT# SK-607 \$7.95 each

Extension speaker for Ham, CB, marine or business communications. Improves clarity in noisy environments. 4 ohms. Black case and

grill. Adjustable mounting bracket with hardware. 6.5' cord with 3.5 mm mini plug. 2.90" x 2.70" x 1.28" deep, not including bracket.



CAT# SK-256 \$3.50 each



PROJECT ENCLOSURES

Black or gray ABS plastic with inter-

locking lid. Integral standoffs for pc board mounting. Lid held in place with self-tapping #4 screws (included).

1.97" x 1.38" x 0.8" CAT # 1551-GGY CAT # 1551-GBK	Gray Black	\$ 1.90 each \$ 1.90 each
2.36" x 1.38" x 0.8" CAT # 1551-HGY CAT # 1551-HBK	Gray Black	\$ 2.25 each \$ 2.25 each
3.15" x 1.57" x 0.8" CAT # 1551-KGY	Gray	\$ 2.35 each

Black

\$ 2.35 each

GENERAL PURPOSE CASES

CAT # 1551-KBK

Black ABS cases with countersunk lid secured with self-tapping screws. Slots for mounting pc boards.

<u>CAT #</u>	Dimensions w/o lid	1-9	<u>10+</u>
1591-MSBK	3.3" x 2.2" x 0.8"	3.50	3.25
1591-ASBK	3.9" x 2.0" x 0.8"	3.75	3.50
1591-BSBK	4.4" x 2.4" x 1.1"	4.30	4.10
1591-CSBK	4.7" x 2.6" x 1.4"	4.65	4.35

INSTRUMENT CASES

Gray ABS plastic. Two piece tongue and groove construction. 0.064" brushed aluminum front and rear panels. Integral pc standoffs. Front and rear vertical pc board guides.

CAT #	Dimensions	<u>1-9</u>	<u>10+</u>
1598-ASGY	6.1" x 3.65" x 1.36"	9.10	8.50
1598-BSGY	5.26" x 5.3" x 2"	10.00	9.60

CASES w/ BATTERY COMPARTMENTS

Black ABS plastic cases with removable front panels and panel for battery compartment Integral pc board standoffs.

Includes self-tapping screws. 9V batteries won't fit in CAT#s 1593-SBK & TBK.

CAT #	Dimensions	1-9	10+
1593-PBK	2.6" x 3.54" x 1.1"	4.15	3.95
1593-QBK	2.6" x 4.4" x 1.1"	4.75	4.55
1593-SBK	2.6" x 3.6" x 0.83"	4.10	3.85
1593-TBK	2.6" x 4.35" x 0.83"	4.50	4.30
1593-YBK	2.6" x 5.45" x 1.1"	5.10	4.85

ABS PROJECT BOX

Hammond # 1593LBK 2.6" x 1.06" x 3.59" black ABS plastic case with removable front panels. Integral pc board standoffs. Includes self-tapping screws. CAT# 1593-LBK

\$4.25 each • 10 for \$3.90 each

DIECAST ALUMINUM ENCLOSURES

I MAR SAND

Aluminum enclosure with countersunk lid that machine screws into drilled and tapped holes. Lap joint construction provides protection from dust and water.

1.99" x 1.99" x 1.23" **CAT# 1590-LB** \$7.25 each 10 for \$6.80 each

3.64" x 1.52" x 1.23" **CAT# 1590-A** \$7.05 each 10 for \$6.65 each

4.39" X 2.34" X 1.23" **CAT# 1590-B** \$8.40 each • 10 for \$7.90 each

4.67" x 3.68" x 1.33" **CAT# 1590-BB** \$11.00 each • 10 for \$10.50 each

4.67" x 3.68" x 1.33". Black finish. **CAT# 1590-BBBK** \$12.75 each 10 for \$12.25 each

ECONOMY PROJECT BOXES

Black ABS plastic project enclosure. Interlocking lid secured with self-tapping screws. Interior slots for pc boards. Includes hardware.

2.51" x 1.73" x 1.25" CAT# MB-131 \$2.50 ea. • 10 for \$2.25 ea.

3.97" X 2.12" X 1.72" CAT# MB-132 \$3.00 ea. • 10 for \$2.75 ea.

4" x 3" x 1.6" CAT# MB-173 \$3.00 ea. • 10 for \$2.65 ea.

5.3" x 3" x 1.9" CAT# MB-113 \$4.50 ea. • 10 for \$4.00 ea.

SNAP-TOGETHER PROJECT BOXES

Two or three piece black ABS enclosures.

1.46" X 1.06" X 0.67" Black ABS plastic project box, 1.46" x 1.06" x 0.67" high. Bottom snap-fits tightly into place. 0.71" x 0.22" slot in one side of box.



CAT# MB-95 \$1.25 each • 10 for \$1.10 each

2.1" x 1.61" x 0.89" 3-pieces. Bottom and one (long) side snap-fit in place. Mounting ears with holes on 2.6" centers. CAT# MB-96 \$1.55 each 10 for \$1.35 each



3.56" x 1.50" x 1.20" Bottom snap-fits into place. Mounting ears with holes on 3.9" centers. 0.25" x 0.43" opening near the bottom of one long side. CAT# MB-97 \$1.95 each 10 for \$1.70 each

UTILITY ENCLOSURE Flame retardant ABS UL94-VO. 2.74" x 1.99" x 0.83". Four screws. CAT# MBU-906 \$3.00 each • 10 for \$2.85 each



NO HASSLE RETURN POLICY

BOXES WITH MOUNTING FLANGES High-impact ABS plastic utility

THREE HOLE PADS CAT # ECS-3 \$5.00 each

IC PATTERN WITH PADS AND BUSS STRIPS CAT # ECS-5 \$5.00 each

SOLID LINE PATTERN CAT # ECS-4 \$5.00 each

SOLID LINE PATTERN 80 x 100mm

CAT # ECS-6 \$3.50 each

6" X 9" SOLDERABLE PERFBOARD

Vector # 8016. 6" x 9" x 0.062" double sided solderable perf board. Isolated holes on 0.100" x 0.100" grid 0.080" dia. solder pads around each hole on both sides of board. FR4 Epoxy Glass (MIL - P13949 type Gf). CAT# SB-8016 \$18.00 each

BREADBOARDS FOR SURFACE
MOUNT PARTS

A solid ground plane on the back of the board provides an easy way to make ground connections and helps lower noise for RF and high-speed circuits. Unplated holes are provided at regular intervals for easy connection to the ground plane. Just insert wire and solder both sides. Standard Eurocard/VME size, 100 x 160mm. 0.8mm thick. High-quality, double-sided FR4 glass-epoxy pc board.

Grid of 42 mil square pads on 50 mil centers allows SMT components of various sizes and pitches to be mounted. SOIC (50 mil pitch) and DIP (100 mil pitch) ICs can be

soldered directly to the pads without adapters. CAT# SB-3T \$12.50 each

SMT PATT

For 0805, 120 SOIC, SOT an SMT parts. It h three SOIC-32 prints, each rou 32 pads. The S rectangle pads are spaced for 0805 and 1206 components. provided for power

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connectors and DIP ICs. CAT# SB-SMT \$12.50 each

SOLDERABLE BREADBOARDS

Same pattern and spacing as our solderless breadboards, CATs# PB-400 and PB-840. Transfer your parts and wires, keeping the same

WWW.ALLELECTRONICS.COM

layout to get a long-lasting prototype with reliable solder connections. High-quality FR4 glass epoxy PC board. CAT# SB-300 has the same pattern as SB-400 without the bus strips on each side

300 point	CAT# SB-300	\$4.00 each
400 point	CAT# SB-400	\$5.00 each
800 point	CAT# SB-800	\$6.50 each

Three sizes available: Interior Dimensions CAT# Price **MBF-20** \$2.75 each 3.1" x 2.0" x 1" 4.9" x 2.5" x 1.6" MBF-22 \$3.50 each 6.0" x 3.5"x 1.9" MBF-24 \$5.45 each

Mounting flange has counter-sunk screw holes and adds 1" to 1.25" to overall length of box.

boxes. Black textured finish. Interlocking lid held in place

guides for 1.6mm thick pc board.

with screws. Interior card

ALUMINUM CHASSIS BOXES

Diecast aluminum allov chassis box with mounting flanges. Lap joint construction. Interior card slots. Self-adhesive gasket

provides protection against dust and moisture.

Outside Dimensions	CAT#	<u>each</u>
114 x 64 x 30mm	MBX-13	\$13.00
114 x 89 x 55mm	MBX-25	\$19.00
171 x 121 x 106mm	MBX-39	\$35.00
222 x 146 x 55mm	MBX-11	\$39.00

ENCLOSURES W/ ALUMINUM COVERS

Heavy-duty 3/32" molded plastic boxes with brushed aluminum covers. Built in stand-offs for P.C. or perf boards. Includes screws. Solderable perf boards PC-1, 2, 3, 4 listed below fit these cases.

2.7" x 1.7" x 1	.2" H	
CAT# TB-1	\$1.90 each	10 for \$1.75 each
3.3" x 2.1" x 1	.4" H	
CAT# TB-2	\$2.25 each	10 for \$2.10 each
4.2" x 2.7" x 1	.6" H	
CAT# TB-3	\$2.75 each	10 for \$2.50 each
5.3" x 3.3" x 1	.6" H	
CAT# TB-4	\$3.50 each	10 for \$3.20 each

SOLDERABLE BREADBOARDS

Perf board with mounting holes designed to fit our project enclosures TB-1,2,3 and 4. Boards have holes on 0.1" matrix to fit most standard components and have copper solder rings on one side.

1 1/2" X 1 3/4". Fits TB-1 enclosure. CAT# PC-1 75¢ each

1 7/8" X 2 1/4". Fits TB-2 enclosure. CAT# PC-2 \$1.00 each

2 1/2" X 3 1/8". Fits TB-3 enclosure. CAT# PC-3 \$1.50 each

3" X 4 1/4". Fits TB-4 enclosure. CAT# PC-4 \$2.00 each

SOLDERABLE PERF BOARDS WITH **SOLDER PADS & BUSS STRIPS**

160 X 100mm (except for CAT# ECS-6) multilayer epoxy boards with copper pattern on one side. Five useful patterns for SIP and DIP components. Holes on 0.1" centers.

VISIT OUR WEBSITE

SINGLE HOLE PADS CAT # ECS-1 \$5.00 each

TWO HOLE PADS CAT # ECS-2 \$5.00 each



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SOLDERLESS BREADBOARDS

Design and change circuits quickly and cleanly. Breadboards accommodate all sizes of dips and discrete components with lead diameters up to 0.032". Interconnect with solid hook-up wire (#22 AWG recommended). Wires and components can be used and re-used many times without damage to board or components.

400 tie points. 300 contacts on main board and 50 contacts on each of two power distribution strips. Distribution strips are removable. CAT **# PB-400** \$4.00 each

840 contacts. 1 terminal strip and two power buss strips. 2 5/8" X 6 7/8" X 3/8" high **CAT# PB-840** \$7.65 each



1680 contacts. 2 terminal strips, 4 buss strips, 3 binding posts mounted on an aluminum back plate 5 1/8" X 6 7/8" X 3/8" high. CAT# PB-1680 \$15.95 each

3260 contacts. 4 terminal strips, 7 buss strips, 4 binding posts mounted on an aluminum back plate 7 7/8" X 8 3/4" X 3/8" high. CAT# PB-3260 \$32.00 each

JUMPER WIRE SETS

Pre-formed jumper wires for use with solderless breadboards. 14 color-coded lengths. AWG 22 solid wire. Unbreakable clear plastic storage case.

 140 PIECE ASSORTMENT

 10 of each size
 CAT # JW-140
 \$ 6.25 each

350 PIECE ASSORTMENT 25 of each size CAT # JW-350

POWERED BREADBOARD

Simplify projecting and prototyping with this triple-output power supply and solderless 2420 tie point breadboard. One fixed and two adjustable supplies, five bus strips and three plug-in strips for DIP and other components.



\$ 12.95 each

Features:

DC power supplies: 5Vdc @ 1.5 Amp fixed 0-15Vdc @ 500mA adjustable 0-15Vdc @ 500mA adjustable Input: 120/ 240Vac @50-60Hz Overload and short-circuit protection. Detachable AC power cord. 10.75" x 8.75" x 3.25". 6 lbs. CAT# PB-4060 \$127.00 each

SOLDERING IRONS AND ACCESSORIES

SOLDERING IRONS AND STATIONS

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VARIABLE TEMPERATURE 16-30 WATT SOLDERING IRON

Xytronic Model 258

Professional soldering iron with temperature control on handle. Temperature can be adjusted from 250-450 degrees C (500-800 deg.F), 16-30 Watts. LED hi/ low temperature indicator. Includes longlasting, chrome plated, iron-clad, pretinned tip (PL-404). 3-conductor grounded power cord. UL. **CAT# IR-258** \$28.95 each

30 WATT SOLDERING IRON



Xytronic 200GX series. Thermally balanced, professional iron with hi-efficiency nichrome heating element. Fast heat-up and recovery time. Comfortable silicone rubber grip. Includes longlasting chrome-plated, iron-clad, pretinned tip (PL-404). 3-conductor grounded power cord. 480 DEG. C (900 DEG. F). UL. CAT # IR-230 \$26.95 each



Xytronics 200GX 20W. An inexpensive

soldering iron for

both professional and D.I.Y. applications. 720F/380C Degrees. 3-wire grounded power cord. Includes standard conical tip and iron rest. CAT# IR-23 \$18.95 each

60W TEMPERATURE CONTROLLED SOLDER STATION

XYTRONIC 168-3CD. Soldering iron assembly with nichrome heating element and

44-415404 tip



and iron stand. 3-digit LED readout indicates tip temperature in Centigrade and Fahrenheit. Calibration control on face of unit allows for quick and convenient fine tuning of the temperature from 150C to 480C (300F-800F). Precision-wound nichrome heating element. Rapid heat-up time - approximately 45 seconds. Heat-resistant, impact-resistant housing complies with DOD, MIL Spec and CE regulations. **CAT# IR-361** \$105.00 each

SOLDERING TIPS

For Xytronic irons and station above.

AX YOUR ORDER 24	HOURS A DAY (818	8) 781-2653	
27.00 each	3.2 MM CHISEL	CAT# PL-405	\$7.00 each
6 lbs.	0.8 MM PENCIL TIP	CAT# PL-401	\$7.00 each
ord.	5 MM CHISEL TIP	CAT# PL-410	\$7.00 each
0-60Hz uit protection.	1.6 MM PENCIL TIP	CAT# PL-404	\$7.00 each
0-60Hz			¢7.00.ee
50W TEMPERATURE-CONTROLLED

SOLDER STATION

Velleman # VTSS5U Adjustable solder station, 175-480C dearees. Protective iron holder with sponge. LED power indicator. Grounded power cord. 195 x 100 x 90mm. Includes CAT# PL-50 pointed tip. Other tips available. CE, RoHS. CAT# IR-50 \$24.75 each

Extra Tips for IR-50 solder station

CAT# PL-50

CONICAL TIP, 2MM (included w/ IR-50) \$2.75 ea. CAT# PL-51 CHISEL TIP. 3MM \$3.00 each CAT# PL-52 CHISEL TIP, 2MM \$3.00 each CAT# PL-53 CONICAL TIP, 1.5MM \$3.00 each

TEMPERATURE CONTROLLED SOLDER STATION



Xytronics # LF-369D. Desktop electronicallycontrolled solder

station for lead or lead-free soldering. Digital temperature display. 45W output. 150-480C / 302-896F temperature range. 105 x 90 x 90mm (W x H x D). Includes replaceable tip, our CAT# PL-601.

Features:

Energy Saver Mode: When left idle for 20 minutes - automatically resets temperature to 150C from previous setting.

Temperature Lock with password.

Heater/Sensor Failure Detection - shuts-down when failure is detected. Iron Holder and Tip Cleaner

CAT# IR-369 \$69.95 each

ACCESSORIES

SOLDER SUCKER

Extrapowerful

desoldering pump with Teflon nozzle. Lightweight, large capacity spring-loaded cleaning tool offers excellent suction for solder removal. CAT# SSR-1 \$4.50 each



High performance cleaning tool which offers excellent suction for solder removal. CAT# 50B-410 \$5.00 each

SOLDERING TIP CLEANER W/ METAL STAND

An effective method for cleaning solder iron tips quickly, without heat loss. Weighted stainless steel holder with low-abrasive brass shavings Rubber foot pad stays put on the work bench. Doesn't rust.

CAT# TC-460 \$9.00 each

Replacement brass shaving element CAT# TC-459 \$3.00 each

HEI PING HAND with MAGNIFIER

Allow both hands freedom to work. Magnifying lens makes work easy to see. CAT# HELPH-M \$5.75 each

SOLDER STAND

Spring steel soldering iron holder. Includes replaceable pad for cleaning iron tip. CAT# 50B-205 \$4.00 each





SOLDERING PASTE / FLUX

Water soluble, no-clean flux paste. ROHS compliant. 50G (1.75oz). CAT# SP-44 \$6.50 each

DE-SOLDERING WICK

For easy removal of parts from P.C. boards. Top quality solder wick. 5 feet per spool. 1/16" wide. CAT# SWK \$1.15 per spool



60/40 ROSIN-CORE SOLDER

Sn60/Pb40. Water soluble, no-clean flux.

TUBE DISPENSER 7' 18 GA (1mm) CAT# TS-110 \$2.35 each 10 for \$2.15 each



lderWit

1 LB ROLL 1mm CAT# SOL-064 \$30.00 per roll

1/2 LB ROLL 1mm CAT# SOL-564 \$18.00 per roll

1 LB ROLL 0.6mm CAT# SOL-644 \$31.00 per roll

1/2 LB ROLL 0.6mm CAT# SOL-642 \$18.50 per roll

63/37 ROSIN-CORE SOLDER

Sn63/Pb37. Water soluble, no-clean flux.

1 LB ROLL 1 mm CAT# SOL-0637 \$33.50 per roll

1/2 LB ROLL 1mm CAT# SOL-5637 \$16.40 per roll

1 LB ROLL 0.6mm CAT# SOL-1637 \$34.50 per roll

1/2 LB ROLL 0.6mm CAT# SOL-2637 \$17.00 per roll

LEAD-FREE SOLDER, 0.5 LB

SN99.3/CU 0.7. 18 ga. (1mm). Lead-free solder, 0.5 Lb. roll. 1mm diameter. Rosin-core, no-clean flux, compatible with leaded and lead-free solder. Suitable for hand-soldering electronic components and terminals. CAT# LFS-532 \$24.50 per roll





MOST ORDERS SHIPPED WITHIN 24-48 HOURS



TOOLS

HEMOSTATS

Hemostats are great for clamping onto small components while soldering or desoldering. Stainless steel.

5" STRAIGHT TIP

CAT# HM-1 \$1.65 each

5" CURVED TIP CAT# HM-2

\$1.65 each

CUT-N-STRIP TOOL

Platinum Tools 10503. Great combination of a self-adjusting wire stripper and flush cutter. Patented stripper self-adjusts to wire sizes 26 AWG to 14 AWG. Catch, hold and strip wire in one quick motion. Stainless steel flush cutter with insulated handles. CAT# WS-503 \$13.50 each

WIRE STRIPPER

Stripper and cutting tool. Stripper adjusts from 24 to 12 ga wire. Spring-loaded to open after each usage. Plastic grips CAT# WS-150 \$4.00 each

5" FLUSH CUTTER

Trim leads on PC boards. Thin cutting edge for hard to reach areas. Insulated handle. Spring return. CAT # FC-14 \$4.50 each



Facilitates retrieval of small metal parts. Adjustable. Extends to 23" overall length. CAT # MAG-31 \$2.50 each

0.017" CARBIDE DRILL BIT

Reconditioned carbide drill bit. CAT# DB-4 \$1.00 each • 20 for \$18.00

10 PIECE NEEDLE FILE SET

Assortment of 10, 5 1/2" long needle files including round, flat, triangular and half-round files. Includes handy pocket-size storage pouch.

CAT# FSET-2 \$6.00 per set

6-PIECE MINI-PHILLIPS SCREWDRIVER SET

Kronus # 64-2969. Miniature Phillips screwdriver set. Durable alloy steel. Rubberized rotating handles for one-handed operation and greater control. Convenient storage case. Includes Phillips[™] 1.4, 1.6, 2, 2.4, 3 & 3.5mm. CAT# PSS-63 \$3.50 each



6 1/2" DIAGONAL CUTTER PLIERS

Drop forged High Carbon Steel, Heat treated, Matte finished, cushion grips CAT# PLR-651 \$3.00 each

4 1/2" MINI LINESMAN PLIERS

Drop forged, heat treated, fully polished pliers with matte finished cushion grips. CAT# PLR-405 \$2.50 each

CORDLESS ROTARY TOOL

9.6Vdc rechargeable. cordless, variable-speed rotary tool. Originally marketed as a doggie pedicure tool, it has

plenty of power for many sanding and

grinding applications.

Includes sanding shaft, three sanding discs and a chuck wrench. Can be used with other attachments with 1/8" shafts, like those in our rotary tool kit, CAT# DK-91. Rotary dial controls speed from 8,000 to 20,000 RPM. Includes charger stand, and instructions.

CAT# RT-96 \$9.95 each

CORDLESS SCREWDRIVER

A good guality

cordless screwdriver with plenty of torque. Reversible.

130 RPM, no-load. Operates on 4 AA cells, rechargeable or standard. Uses standard 1/4" hex bits. Hex bits and batteries not included CAT# SDR-3 \$6.00 each

6 IN 1 SCREWDRIVER

6 in 1 quick change screwdriver. Set includes Phillips #1

and #2 screwdriver. 3/16" and 1/4" slotted screwdriver, 5/16" and 1/4" nutdriver. Ball and spring retention shaft with positive snap-fit locking, cushioned handle.

CAT# ND-6 \$4.75 each

UTILITY BRUSH

Double-headed utility brush. Brass metal bristles on one side and nylon bristles on the other. 5" handle, over-all size 7". CAT# BSH-17 \$1.50 each

CLEANING BRUSHES 3-PIECE SET

Set includes one each, steel, 7777 brass and nylon bristle brush. Plastic handles, 7" long. CAT# BSH-15 \$2.25 per set

SMALL CLEANING BRUSH

3" brush with medium-stiff bristles. Cut on a diagonal to provide a pointy cleaning edge. Great for cleaning parts or equipment or detailing cars. Probably designed for a dental application, vinyl covered handle is engraved with "Plaque Checker."

CAT# BSH-14 5 for 75¢

MODULAR PLUG CRIMP TOOL

Strips flat phone wire and crimps modular plugs.

For 4 or 6 pin modular plug. CAT# MPCPT-6 \$14.00 each

For 8 pin RJ-45 modular plug. CAT# MPCPT-8 \$10.50 each



FAST FRIENDLY SERVICE







Apeticu

NYLON SPRING CLAMPS

Hold down your work-inprogress with these rugged nylon spring clamp. Swivel jaws stay parallel on materials of varying thickness.

3.75" long	CAT# SCL-20	2 for \$1.00
4.75" long	CAT# SCL-40	\$1.00 each
6.50" long	CAT# SCL-60	\$1.50 each

HEAD-MOUNTED MAGNIFIER

Keeps your hands free while enhancing your vision. 3-level acrylic lens system provides a variety of magnification levels up to 4.8x. 2.2x fixed lens.

pp to

1.1x interior flip-down lens and

1.5x swivel loupe. Magnifier assembly can be flipped up out of your way when not in use. Wide body allows for glasses. Adjustable hook-and-loop headstrap. **CAT# HD-MAG** \$6.50 each

TEST CABLES & CLIPS

ECONOMY TEST LEADS

Red and black lead set with banana plug on one end and pin probe on other end. 3 ft. long.

CAT# TL-100 \$2.50 per set

TEST LEADS, BANANA PLUG TO MINI-GRABBERS

Red and black lead set with banana plug on one end and minigrabbers on other end. 36" long. Mini-hooks provide a firm, insulated connection to small terminals and wires in high-density areas. CAT# TL-5 \$3.75 each

TEST PROBES W/ DETACHABLE ALLIGATOR CLIPS

Red and black multimeter test leads. Shrouded right-angle banana plugs fit recessed jacks

found on most meters. Test probes on other end are threaded to accommodate alligator clips. 33" long leads. **CAT# TL-4** \$5.75 each

ALLIGATOR CLIP TEST LEADS

Flexible, heat-resistant silicon rubber test leads with stacking banana plugs on one end, insulated alligator clips on the other end. 40" long. 1-red, 1-black. CAT# TL-7 \$9.50 set



MINI-HOOK JUMPERS

Mini-hooks are great for connection to parts in highdensity areas. They give a firm, insulated connection

SET OF TWO 1 1/2" MINI HOOK JUMPERS

Two 18" long mini-hook patch cords. One black, one red, with 1.5" long mini-hooks on each end. CAT# MTC-2 \$3.25 each

2" MINI-HOOK JUMPERS

Five 18" long mini-hook patch cords. Black, red, white, green and yellow. CAT# MTC-5 set of 5 for \$6.50



MINI-GRABBER TEST CLIPS, BLACK/RED

1.65" mini-clips. Mini-hooks provide a firm, insulated connection to small terminals and wires in high-density areas. CAT# MTC-7 \$1.80 per pair

MICROGRABBER TEST CLIP W/ 0.025" (.64MM) PIN

Pomona Grabber® 4521-0 Black 1.73" glass-filled Nylon test clip. 0.025" (0.64mm) square pin. Mates with patch cords equipped with appropriate receptacle. CAT# MTC-9B \$2.00 each 10 for \$1.75 each



MINI JUMPERS

10 TEST LEADS - 1" CLIPS 2 each of 5 colors. CAT# MTL-10 \$2.95 per set

REGULAR JUMPERS

5 TEST LEADS -2" CLIPS **CAT# HDTL-5** \$2.50 each



HEAVY-DUTY JUMPERS

10 jumpers, 5 colors, 32" long. 1.75" clips with stronger jaws. CAT# HDTL-10 \$5.40 each



ALLIGATOR CLIPS

1.20" INSULATED ALLIGATOR CLIPS 1.20" (31mm) alligator clip with red and black vinyl boots. Sold in pairs. CAT# ALG-36 85¢ per pair • 20 pairs for \$14.00

1.4" INSULATED ALLIGATOR CLIPS

1.4" (35mm) alligator clip with red and black vinyl boots. Sold in pairs.

CAT# ALG-37 \$1.00 per pair 20 pairs for \$16.00

2" CLIP W/ SCREW 2" (50mm) uninsulated alligator clip with screw. CAT# ALG-M 4 for \$1.00 20 for \$4.40 • 100 for \$17.00





BATTERY CLIPS

Electrical test/charge clips. Screw terminal and crimp tab connection

40mm CAT# ALG-41 50¢ ea. • 10 for \$4.00 50mm CAT# ALG-26 65¢ ea. • 10 for \$5.00

25A TEST CLIPS, 2 PCS

3" spring-action clips for automotive and other heavy-duty applications. Screw and crimp connection. **CAT# ALG-93** \$2.00 per pack

70MM BATTERY CLIPS

70mm spring clips with insulated handles. Electrical and charging applications. Crimp tabs. Set consists of one red and one black insulated clip.

CAT# ALG-40 \$1.75 pair

TEST EQUIPMENT AND ACCESSORIES

1MHZ POCKET FUNCTION GENERATOR

Velleman HPG1. A complete function generator in pocket format! 3 waveforms can be selected. Set the



output voltage or frequency and select signal waveform using the on the screen menu. A powerful sweep function is also included.

Features

- DDS type generator (Direct Digital Synthesis)
- DAC resolution: 10 bits
- frequency range: 1Hz to 1,000,000Hz (± 0.01%)
- freq. steps: 1Hz, 10Hz, 100Hz, 1kHz and 10kHz
- · waveforms: sine, square and triangle
- · sweep function with bi-direction option
- output voltage: max. 8Vpp

 real output level measurement: dBm / Vrms or Vpp readout (±3%)

typical sine wave distortion (THD): < 0.1% @ 0dB / 600 ohms

- square wave rise/fall time: typ. 0.2µs
- output impedance: 50 ohms
- multi-language menu (Eng / Fre / Dut / Ge / Es)
- white LED backlight
- charging power supply: 9Vdc/200mA
- NiMH rechargeable battery pack (included)
- dimensions: 2.9" x 4.5" x 1.14"

 includes: getting started manual, BNC adapter, BNC male to RCA female, BNC male to 2x 4mm banana jacks, USB power supply adaptor
 CAT# HPG-1 \$149.95 each

CAPACITANCE METER

GME #C350. Portable capacitance meter with large LCD readout. 9 capacitance ranges for values from 0.1pF to 20,000uF. Less than 5 second sampling time. Includes alligator test leads, instructions and 9 Volt battery.

CAT # CP-350 \$45.00 each

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esis) 1000 Amp DC voltag 20K Ohm padded ca

LCD MULTIMETER WITH BACKLIGHT

For features, accuracy and ruggedness, this is a great, inexpensive multimeter. DC current (10 A), DC and AC voltage

(600 V), resistance (2 M ohm), diode, transistor tester, audible continuity and hold button.



Protective rubber shell and test leads included. **CAT # DVM-850BL** \$17.95 each

3 1/2 DIGIT LCD MULTI-METER

Velleman # DVM890 An incredible array of features at a great price. 20A DC current, 1000 DC Volts. 20A AC current, 700 AC volts.



Resistance to 20 M. Capacitance from 2000pF to 20uF. Frequency measurement to 20kHz. Temperature measurement: -58° F to 1832° F with K-type thermocouple. Low battery indication, overload protection and auto power off function. Protective rubber shell, test leads and thermocouple included.

CAT# DVM-890 \$45.00 each

DIGITAL CLAMP METER W/ TYPE K THERMOCOUPLE

3 1/2 digit LCD clamp meter with Type K thermocouple probe. Tests AC current to 1000 Amps, AC voltage to 750V, DC voltage to 1000V and resistance to 20K Ohm. Data Hold button. Includes padded carrying case, test probes, thermocouple probe and instructions. Powered by 9V battery (included). CAT# CLM-266 \$19.00 each

INEXPENSIVE MULTIMETER

A great little digital meter for school, home workshop or toolbox, with most of the ranges and features you need for everyday use. DC, AC Volts, DC Amps, Ohms, hFE, diode test, square wave, transistor checker, continuity buzzer. Test leads and 9V battery included. 4.95" x 2.75" x 0.90" CAT# DVM-830 \$7.75 each



TACHOMETER

Non-contact tachometer. Micro computer technology with laser beam gives accurate and fast, once per second, readings. Stores and recalls the last, maximum and minimum RPM

readings. Readings remain in memory until the next measurement. 2.5 to 99,999 RPM range. Large 5-digit LCD display. CE certified. Operates on 4 AA cells, included. Storage case included. **CAT# TCH-4** \$47.75 each

ECONOMY DIGITAL MULTIMETER

Economical and compact multimeter with a 3 1/2 digit LCD for measuring DC and AC voltages, DC currents, resistance. diodes and transistors (hFE). Features overload protection. Ranges: DC and AC voltage, 500 volts, DC current, 0.2 A (fused), 10 A (not fused), resistance to 2M. Ideal for hobbyists, for use in the field and workshops. Test leads, instruction book included. 3.70" x 1.81" x 1.03" high. CAT# DVM-810 \$7.95 each

SCOPE PROBE SET

Probe with BNC connector. Comes with ground lead, retractable hook tip, pin tip with IC lead cover and standard cover.

60 MHz CAT # PR-60 \$19.50 ea.

CONTINUITY TESTER

GB Instruments[™] GCT-304A. Simple continuity tester for all kinds of circuits, switches and fuses. Pointy probe lights when continuity exists. Flexible 34" cable with alligator clip. Requires 2 AA batteries (not included). CAT# CT-19 \$2.95 each

LOW VOLTAGE TESTER

NuTone # RCDT900. Convenient test light for 5-30 Volts AC or DC. Marketed as a Door Chime Diagnostic Tool, consists of an enclosed light bulb with two test leads. Light glows, brightness varying with voltage, when power is present. Leads snap into back of unit for compact storage. CAT# LVT-2 \$2.50 each

AC OUTLET TESTER W/ GFCI TEST

GB Instruments "Sure Wire"™ #GRT-800. Plugs into grounded electrical receptacle and tests for unsafe ground and branch wiring. Red, yellow, green LEDs indicate wiring status.

Push-button GFCI tester trips GFCI if functional. CAT# GRT-800 \$6.95 each

COUNTER

24 VDC 5-DIGIT COUNTER

Durant # 5-Y-41492-404-MEU 24Vdc 3W. Non-resettable 00007 impulse counter. 40 x 25 x 55mm long. Two tapped holes in rear plate. Two 14" leads prepped with crimp pins. CSA. CAT# CTR-11 \$ 2.25 each

DIP IC EXTRACTOR TOOL

CAT# EX-1 \$2.50 each

THERMAL SWITCHES

THERMAL FUSES

Miniature, heat-sensitive devices designed for over temperature protection of electrical appliances and equipment. Rated to 15A. UL, CSA.

CAT#	Cutoff Temp
TCF-194	194°C
TCF-216	216°C
TCF-228	228°C

All thermal fuses 2 for \$1.00

THERMAL CIRCUIT PROTECTOR, 75C

Klixon - 7A M202. Bimetal disc calibrated to open at 75° C. 0.70" x 0.41" x 0.16." 1.75" leads. UL, CSA, KEMA. CAT# THSW-75 \$1.00 each 10 for 85¢ each • 100 for 65¢ each

THERMAL CIRCUIT PROTECTOR, 100C

Klixon - 7A M027A5. Bimetal disc calibrated to open at 100° C. 0.70" x 0.41" x 0.16." Crimp terminals. UL, CSA, KEMA. CAT# THSW-100 \$1.00 each 10 for 85¢ each • 100 for 65¢ each



RESETTABLE CIRCUIT PROTECTORS

GENERAL PURPOSE CIRCUIT PROTECTOR. 0.65 - 1.3 AMP

Raychem "Polyswitch" # RXE-065S-1 Automatically reset when fault condition is cleared. Can be paralleled for higher ratings. Current: 0.65 Amps. Trip Current: 1.3 Amps. Max Voltage: 60 Volts. 0.33" diameter. UL, CSA. CAT# RXE-065 3 for \$1.00 • 100 for \$ 20.00 500 for \$85.00 • 1000 for \$150.00

BATTERY PACK PROTECTOR

Raychem Polyswitch™ # LTP100S. 1 Amp, 24 Volt max. Hold: 1 Amp. Trip: 2.5 Amp. Resettable device provides overcur-



rent protection for rechargeable batteries. 0.9" long x 0.2" wide x 0.03" thick. UL, CSA, TUV. CAT# CPX-100S 4 for \$1.00 • 100 for 15¢ ea. 1000 for 10¢ each • 2000 for 8¢ each

THERMISTORS

10K OHM NTC THERMISTOR

5mm epoxy coated disc. 500mW max power rating. -20 to 125C operating temperature. CAT# TNR-103 65¢ each 10 for 55¢ each • 100 for 40¢ each

NTC THERMISTOR, 10 OHM 6A

Ametherm # SL15-10006. Negative Temperature Coefficient (NTC) thermistor. 10 Ohms, 20%. 6A Max. steady-state current. Inrush current limiting device. 14mm diameter x 4mm. Leads on 8mm centers. 2 for \$1.00 • 100 for 40¢ ea. CAT# THM-15

DUST BLOWER WITH NOZZLE

Save the canned air! This rubber dust blower has a metal nozzle that focuses the air for precision cleaning of parts and equipment. Also useful for desoldering. CAT# DB-1 \$3.50 each

DC MOTORS

MINI-VIBRATING MOTORS

Tiny motor with offset weighted shaft. Designed to vibrate in mobile communications devices. Operate on 1.5-4.5Vdc.

15mm – length including shaft. 4mm dia. without rubber. Rubber casing is 5 x 6.5 x 11mm. Gold contacts. **CAT# DCM-371** \$1.25 each 10 for \$1.10 each 100 for 95¢ each

13mm – length including shaft. 4mm diameter without rubber. Rubber casing is 5 x 6 x 8mm. Gold contacts. **CAT# DCM-372** \$1.25 each 10 for \$1.10 each • 100 for 95¢ each

Mini pancake vibrator motor. 10mm diameter x 3mm thick.

Operates on 1.5 to 4.5Vdc. 21mm long flexi-ribbon cable has two easily accessible solder spots for voltage connection. Motor has a thin rubber pad on one face and peel-off adhesive patch on other side.

CAT# DCM-373 \$1.00 ea. 100 for 75¢ ea.

1.5 - 6 VDC MOTOR

Mabuchi #RF-280RA 02142. 24.0mm diameter x 30.5mm body. 4200-7600 RPM. 2mm diameter x 8.5mm long shaft. 58mA @ 3Vdc, no-load. Prepped with 95mm (3.5") leads. **CAT# DCM-406** \$1.75 each 100 for \$1.60 each • 400 for \$1.45 each

6 VDC MOTOR

Nissei Denki. 29.4mm long x 20.0mm diameter. Shaft, 10mm long x 1.5mm diameter. No-load specs: 12,000 RPM @ 6 Vdc, 40mA. Operates on 1-8 Vdc range. Two threaded mounting holes on motor face on 12mm centers. Solder-lug terminals. **CAT# DCM-410**

\$1.35 each • 100 for \$1.05 each

3-18 VDC MOTOR

Nichibo PC-280P (P-571). New No-load specs,

9,100 RPM @ 12Vdc, 100mA. Operates well on 3-18Vdc range. 30.5mm long x 24.2mm x 18.3mm (excluding shaft). Serrated shaft, 13.5mm long x 2.0mm diameter. Solder terminals.

CAT# DCM-411 \$1.25 ea. • 100 for \$1.05 ea.

3-20VDC MOTOR

Mabuchi #RS-555PH. 12Vdc (9-20V) motor. Approximately 4500RPM @ [⊄] 12Vdc, 0.15A (no load rating).



37mm diameter x 58mm long. 3.2mm diameter x 13mm long flatted shaft. Solder-lug terminals. CAT# DCM-330 \$3.50 each

12VDC MOTOR

Source Engineering, Inc. #360S-10420-LV. No-load spec: 4,000 RPM @ 12Vdc, 0.06A. At maximum efficiency: 35 g-cm @ 3000 RPM @ 0.16A, 1.1W. 27.7mm diameter x 33.0mm long. 2.3mm diameter x 21.5mm long shaft. Prepped with wire leads.

CAT# DCM-405 \$2.30 each

8-24 VDC MOTOR

Johnson Motor #64823 3C4921 36mm diameter x 50mm long. 3mm dia. shaft x 14mm long. 0.187" QC / solder terminals. Operates smoothly over 8 -24 Vdc range. 5200 RPM @ 14Vdc, 200 ma, no-load rating. CAT# DCM-398 \$3.25 each

8 - 16 VDC MOTOR

Mabuchi #FC-280PT-20150. 24.2 x 18.3 x 30.5mm long,



excluding shaft. 2mm diameter x 9mm long splined shaft. No-load rating: 11,800 RPM @ 12Vdc, 0.56A. Push-in-style terminals. Push wire into slots to make connection. **CAT# DCM-374**

\$1.25 ea. • 10 for \$1.15 ea. • 100 for 95¢ ea.

1.5-6VDC MOTOR

Mabuchi #RC-260RA. 24mm diameter x 27mm long. 2mm diameter x 7mm long shaft. Solder-lug terminals.

CAT# DCM-409 \$1.40 each 10 for \$1.30 each • 100 for \$1.15 each

DC MOTOR ASSEMBLY, USED

A small, good-quality DC motor and a metal wheel in a plastic assembly with a spring-loaded arm that somehow connects the two. We're not sure of its motion or function but, worst-case scenario, when you remove the



Phillips screws and take it apart, you have a pretty decent little motor that operates on 3-13Vdc. Motor is 10 x 12 x 15mm long. Shaft is 3 x 2mm, flatted on two sides x 4mm long. 24.5mm dia. wheel is metal with a rubber outer rim. Assembly was removed from equipment. **CAT# DCM-399** \$1.95 each

6 - 24 VDC HIGH-SPEED MOTOR

High speed permanent magnet motor 6-24VDC with tach output. 10,000 RPM @ 20Vdc, 150mA (no-load). 34mm dia. x 55mm long. 3mm dia shaft with pulley. Four 90mm leads w/ 4-pin female connector (0.1").

CAT# DCM-408 \$6.25 ea. • 10 for \$5.85 ea.

12/24 VDC MOTOR

Buehler # 1.13.022.232.00. No load ratings: 4500 RPM @ 12Vdc/80mA. 10000 RPM @ 24Vdc/ 100mA. 31.2mm dia. x 54.73mm long. Shaft 2.47mm diameter x 25 mm long with 11.8mm diameter plastic worm gear. 5 inch leads with 2-pin molex-type connector. Four tapped mounting holes on face of motor. **CAT# DCM-445** \$6.00 each

12 VDC 3W PRECISION MOTOR, USED

Pittman #8224C106-R5. No-load Ratings: 1700 RPM @ 6Vdc / 0.8Amp, 3700 RPM @ 12Vdc / 1Amp. 30mm dia. x 61.7mm long. 2.5mm dia. x



· III Co

 V. 27.7mm diameter x
 5.9mm flatted shaft. Motor face has 4 tapped mounting holes. 90mm leads with Molex-type connector. Used, removed from equipment in good condition. CAT# DCM-704 \$5.50 each SHOP ON-LINE WWW.ALLELECTRONICS.COM



12 - 30 VDC MOTOR

Mabuchi #RK 370CA 24.4mm dia. x 30.8mm long. 2mm diameter x 8mm shaft. Optimum performance around



18-24Vdc. Operates as low as 4Vdc. Two M3.0x0.5 tapped holes in motor face. Solder terminals. CAT# DCM-375 \$1.75 each

10 for \$1.65 each • 100 for \$1.50 each

12-24 VDC MOTOR

Igarashi Motor # 3657-070-GF-5. 8100RPM @ 24VDC. 0.2A



(no-load rating). 38mm diameter x 57mm long. 3.2mm diameter x 20.0mm long shaft. Two M3.0 x 0.5 tapped holes in motor face on 0.984" centers. Solder lugs.

CAT# DCM-369 \$3.00 each

12-24 VDC MOTOR

Mabuchi motor. 30.5mm long x 18mm x 24mm. Shaft, 15mm long x 2mm diameter. Operates on 6-24Vdc range.

Flat-pin solder terminals. CAT# DCM-413 \$1.85 each

100 for \$1.50 each

DC GEAR MOTORS

6 VDC GEAR MOTOR

Power Electric Distribution 21267-000 Rev.B. 6 Vdc gear motor. No-load rating: 80 RPM @ 6 Vdc, 110mA. Works well down to 1.5Vdc (12RPM). 61mm L x 20mm D. 4mm diameter x 11mm flatted shaft. 280mm leads with 2-pin female connector.

CAT# DCM-365 \$11.95 each

10 for \$11.50 each

24VDC 19RPM GEAR MOTOR

Source Engineering, Inc. 37JB270G (gear), 32ZYT30 (motor). No-load spec: 25 RPM @ 24Vdc, <60mA. Torque: 0.94Nm @ < 300mA Gear ratio: 270:1. 37mm diameter gearbox. 32mm diameter motor. 57mm length overall length. 6mm diameter flatted shaft is 15.5mm long. CAT# DCM-404 \$12.45 each

85 RPM 12 VDC GEAR MOTOR

33JPF-15380-50. Quality 12Vdc gearmotor runs 85rpm @ 42mA (no-load) but has input voltage range from 2 - 20vdc. At 12vdc draws about 160ma typical under load. Overall length excluding shaft - 50mm. Overall diameter - 33mm. Flatted shaft length 6.5mm, shaft diameter 4.0mm. Solder lugs. Ideal for robotics, modelers, hobby projects. CAT# DCM-416 \$15.00 each



Buehler # 1.61.046.131.00. No-load Ratings: 62 RPM @ 12Vdc, 124 RPM @ 24Vdc. Overall length, 65mm.



Gearbox dia., 35mm. 5mm dia. x 26mm long flatted shaft. Three tapped mounting holes in gearbox face. Recessed 2-pin female connector. Our connector, CAT# CON-230P, though not ideal, will enable connection to the motor. CAT# DCM-390 \$14.00 each

12VDC RIGHT-ANGLE GEAR HEAD MOTORS WITH WORM DRIVE REDUCED



No-load rating: 180 RPM @ 12Vdc / 1.3A. Overall length, 144mm (5.66"). Motor dia., 49mm (1.91"). 12mm dia. worm shaft is 89mm (3.55") long. The last 12mm of the shaft has a 6 x 1.0 reverse metric thread. Heavy gauge U-bracket on back of gearhead, 1/4" holes with 7mm spacing. 3/16" quick-connect terminals. Designed for power seat adjustment in autos.



3-24VDC GEAR MOTOR. USED

Timing-style gear motor, removed from working equipment in good condition. Operates over a 3-20Vdc range, approximately 20ma @ 3Vdc, 80ma @ 20Vdc. 176RPM @ 12Vdc. Pear-shaped gear box, 65 x 49mm, two mounting holes on 47mm centers. 41.5mm long, excluding shaft. 20mm long shaft with 4-prong, X-shaped gear on end. Two 170mm leads with 2-conductor female connector (0.1" spacing). CAT# DCM-395 \$4.75 each

PRECISION DC GEAR MOTOR, USED

FAULHABER #1624 motor, 16/5 (22:1) gearhead. Swiss-made precision gear motor. Small, powerful-forits-size, very-low current. No-load Ratings: 320 RPM @ 12Vdc/ 2.5mA. 545 RPM @ 20Vdc / 3.9mA. 17mm diameter x 40mm long overall.



2mm diameter x 10mm shaft with attached 11.7mm diameter pulley for round, 2mm belt. Motor face has 4 tapped mounting holes. Two wire leads, 45mm. Used, removed from equipment in good condition. CAT# DCM-705 \$9.95 each

BUHLER DC GEAR MOTOR

Compact, relatively powerful DC gear motor. 44 RPM @ 6Vdc/ 70mA (no-load rating). 40.0 x 28.5 x 48.5mm long (1.57" x 1.12" x 1.90"), excluding shaft. 3mm (1/8") dia. flatted shaft x 10mm long. 8" pigtail leads.



3-12 VDC GEAR MOTOR

Compact DC gearhead motor. Operates smoothly from 3-12Vdc. 60RPM @ 6Vdc,



110mA (no-load rating). Overall length, 53mm. Diameter of gearhead, 33mm. 5mm diameter x 12mm long flatted shaft. Three tapped holes in motor face. Two 50mm leads.

CAT# DCM-702 \$15.00 each

12/24 VDC GEAR MOTOR

Buehler #1.61.046.503.06. No load ratings: 110 RPM @ 12Vdc/90mA. 250 RPM @ 24Vdc/90 mA. Overall length, excluding shaft, 75mm. Gear head dia., 35mm. Flatted shaft, 5mm dia. x 19mm long with 14.5mm diameter plastic gear. Motor attached to metal bracket and has 12 inch leads with GMA inline fuse holder. CAT# DCM-441 \$14.95 each

PRECISION GEARHEAD MOTOR. USED

Pittman # GM8712F191 / PM3662. 96:1 gear ratio. Rated 19.1Vdc. 80 RPM @ 19vdc, 100mA (no-load).



56 RPM @ 12Vdc (no-load). 35mm dia. gearhead. 30mm dia. motor. Overall length of motor and gearhead, 75mm. 4.5mm dia. x 20mm long shaft. Three mounting holes on face of motor. Prepped with 17mm dia. metal gear, collar and mounting plate. Removed from working equipment in very-clean condition. \$15.00 \$12.50 each CAT# DCM-518

12 VDC 58 RPM MINI-MOTOR

Sayama #12SM-AT3. Compact, good-quality 12Vdc gearhead motor. 58RPM, @ 12Vdc,



20mA (no-load). 12mm dia.x 35mm long. Solderlug terminals. 2mm dia. x 6mm long flatted shaft. CAT# DCM-318 \$12.95 each

24 VDC GEAR MOTOR W/ TURNTABLE

Relatively powerful, lowcurrent DC motor and gearbox with a 4.9" dia. plastic (nylon?) turntable with a rubber o-ring circumference that could be used to drive another wheel. Turntable can be removed from motor and



rubber ring on turntable can be removed as well. Motor gearbox has a 3/8" dia. shaft that is flatted and splined.

Specifications:

45RPM @ 24 Vdc, 60mA - operates at 12Vdc at 1/2 speed.

Mabuchi motor RS-380SH. 1.1" dia. x 1.67". Molon gearbox# CHM-2435-1. 2.75" x 3.00" x 0.57" CAT# DCM-351 \$9.75 each

SERVO MOTORS

STANDARD RACING SERVO

Comparable to JR Z270 analog racing servo. 1.55" x 0.73" x 1.46" (39.4 x 18.5 x 37.1mm). 49oz-in torque @ 6Vdc. Speed: 0.23sec/ 60° @ 4.8V, 0.19 sec/ 60° @ 6V.



REDUCED

PRICE !

6.5" leads with standard 3-conductor female connector. CAT# DCS-110 \$9.75 \$6.95 each • 5 for \$6.75 each

CONTINUOUS ROTATION

Parallax (Futaba)# 900-00008 0 to 50 RPM, with linear response to PWM for easy ramping. Power requirements: 4 to 6 VDC, 15 -200 mA. 2.2 x 0.8 x 1.6" (55.8x 19 x 40.6 mm) excluding servo horn. Torque: 38 oz-in @ 6 V. CAT# PX-900 \$12.99 each



CONTINUOUS ROTATION

Fitec # FS5103R Standard size, analog, continuous rotation servo. Speed: 55 RPM @ 4.8V (0.18 sec/60°) 62 RPM @ 6V (0.16 sec/60°). Torque: 2.5kg-cm (34.78 oz-in) @4.8V. 3.2kg.cm/44.52oz.in @ 6V. Weight, 36g (1.27 oz). 30cm leads with JR connector. 40.8 x 20.1 x 38.0mm. CAT# DCS-103R \$12.00 each

80

CONTINUOUS ROTATION

Fitec FS5106R

Higher torque, standard size, analog, continuous rotation servo. Speed: 55 RPM @ 4.8V (0.18 sec/60 degrees) 62 RPM @ 6V (0.16 sec/60°).



Torque: 5.2kg-cm (72.34 oz-in) @ 4.8V. 6.3kg.cm/87.64oz.in @ 6V. Weight, 40g (1.41 oz). 30cm leads w/JR connector. 40.8 x 20.1 x 38.0mm. CAT# DCS-106R \$15.75 each

STEPPER MO

6-WIRE STEPPER

North American Philips Controls # 504-0004. 12 Volts, 8 Watt stepper motor. 2.25" dia.x 0.95" 0.25" dia.x 0.37" long shaft. 6" leads. Motors are unused.



but discolored from storage conditions. CAT# SMT-358 \$2.00 each

8-WIRE STEPPER MOTOR, USED

Minebea Astrosyn Type 23LM-K255-03. NEMA 23 bipolar stepper motor. 1.8° per step. 57 x 57mm mounting plate. 57mm dia. x 40mm long, excluding shaft. 6.5mm dia. x 23mm long shaft. Eight 6" leads with 8-conductor female socket connector (0.1" spacing). Used, removed from equipment.



CAT# SMT-135 \$8.50 each

8-LEAD STEPPER MOTOR

Airpax® S57M048S02. 5V, 6.25 Ohms/coil, 7.5 Degrees per step. 57mm diameter x 24mm long. Mounting flange with tapped holes on 67mm centers. 5mm diameter x 12mm long shaft with nylon cogbelt pulley. Eight 270mm leads. CAT# SMT-133 \$3.00 each

ROTARY STEPPER MOTOR

Nippon Pulse #PF55-48D1. 55mm dia. x 25mm 5V unipolar stepper motor. 7.5 Deg. per step. 2-phase. 5 Ohms per phase. Shaft is 3mm in dia. x 4mm long with a small keyway on one side. Six 12" leads. CAT# SMT-120 \$2.00 each



STEPPER MOTOR, 6-WIRE

Mabuchi # PF35T-48L4. Four phase, unipolar stepper motor with 6 leads. 3.6 Degree step angle. 20 Ohms. 7V, 350mA. 1.38" dia. x 0.59" long. Mounting flange has two holes on 1.68" centers. Dual shaft, 0.078" dia. Brass gear on one side, 10 teeth, 0.25" dia. 2.75" leads with socket connector. CAT# SMT-108 \$3.25 each

16 WIRE STEPPER MOTOR

Brand unknown - Made in Belgium # PD 12. Code number: 9904 112 12001. 3º 45' step angle. 175mA. 150 g/cm torque. 1.5" diameter x 2.48" long. 1.5" square mounting plate. 0.15" dia. x 0.40" long shaft. 16 leads, 11" long. CAT# SMT-118 \$4.75 each



STEPPER MOTORS

Portescap #S42L048S02-M5 24V, 5 Ohm, 7.5 Degree per step. 42mm diameter x 22mm. Two mounting holes on 51mm centers. Four 3" leads. Shaft - 3mm diameter x 11mm long. 16 tooth, 9.75mm dia. brass gear. **CAT# SMT-356** \$2.50 each

Thomson Airpax Mechatronics # \$42M048T52. 3.1Vdc, 3.6 Ohm, 7.5 Degree per step. 42mm diameter x 22mm. Four mounting holes on 36mm centers. Four 6" leads. Shaft – 3mm diameter x 11mm long. 13 tooth, 12mm diameter brass gear. CAT# SMT-355 \$2.50 each

4-LEAD, 1.8 DEG STEPPER MOTOR

Shinano Kenshi # STP 58D3004. 56 x 56 x 54mm stepper. 1.8 Degree per step. 0.48 Ohm. Four mounting holes on 47mm centers. Four 4" wire leads prepped with 5-pin connector. 6.5mm (0.25") dia. shaft x 16mm long. 25mm dia, gear with 23 teeth. CAT# SMT-119 \$14.00 each

4-WIRE STEPPER MOTOR

Minebea # 23KM-K217-P2V. 56 x 56 x 42mm stepping motor. Four mounting holes on 47.14mm centers. 1.8 degrees per step. 8mm diameter x 25mm long shaft with 20mm diameter cog gear.

4, 380mm wires with 4-pin connector. Motors are new, prepped with a removable metal adapter. **CAT# SMT-363** \$12.00 each

STEPPER MOTOR, 8-WIRE

Minebea-Matsushita # 23LM-K255-08W P/N 20-0253-01 REV.L. 57mm x 57mm square mounting flange, tapped mounting holes, 47.15 centers.



57mm diameter x 40.11mm body. 6.35mm diameter flatted shaft 27.45mm long. 8-wire, two ferrites and molex type connector on 6" leads. Unknown specs. **CAT# SMT-366** \$10.00 each

STEPPER MOTOR W/ GEAR TRAIN

Japan Servo Motor# KH42JM2-038.

6-pin connector, 1.8 Degree/ step motor attached to a gear train with eight single and compound gears. Motor is 42mm square (1.63") x 1.57" long with a 5mm diameter shaft with a brass gear attached. The gea

brass gear attached. The gear train is 6" x 1.45" overall and is removable. Requires an 11-pin socket connector, 2mm pitch for connection. **CAT# SMT-107** \$10.00 each

115 VAC REVERSIBLE AC MOTORS

115VAC REVERSIBLE MOTOR W/ CAPACITOR

Oriental Motor# 4RJ20GB-AUL. Capacitor-run, singlephase motor with built-in friction brake to improve instantaneous reversing



characteristics. Suited for applications where the motor must switch direction frequently. 115 Vac, 0.48A, 20W. Starting torque, 14.6 oz-in. Rated Torque, 18.7 oz-in. 1500 RPM. 7mm diameter x 12.5mm long pinion shaft designed to mate with gearbox. 80mm square mounting plate. Overall length of motor, 77mm. Three 12" leads. UL, CSA, CE. Includes 6 uF capacitor. We have some gearheads designed to fit this motor, Oriental #4GB3.6KA - see CAT# GH-436. Motors and gearheads are new, in original boxes. CAT# ACM-420 \$25.00 each

GEAR HEAD FOR REVERSIBLE MOTOR. ACM-420

MOTOR, ACM-42 Oriental # 4GB3.6KA. Designed for use with Oriental GB-series motors, like our CAT# ACM-420. Fits 80mm



square mounting plate on motor. 32.2mm thick. 5/16" (9mm) diameter flatted shaft is 30mm long. When used with CAT# ACM-420, final no-load speed is 500 RPM. New, in original box with hardware and installation instructions. CAT# GH-436 \$25.00 each

Elinco WH-1276. Low-noise, capacitor-run reversible 115Vac, 0.2A, continuous-duty motor with a 5mm dia. x 10mm toothed shaft designed to mate with a gear head. 1450 RPM. 61mm square mounting plate with four holes. Motor



is 61mm dia. x 66mm long. Three 10" leads. Includes 2.0 Uf 300V capacitor & hook-up instructions. CAT# ACM-276 \$16.00 each

AC GEAR MOTORS

1.5 RPM GEAR MOTOR, 120 VAC Hexin P/N 14011305. 1.5 RPM timing-type motor. Clock-wise rotation. Operates on 120Vac, 60Hz, 3W. 0.25" (6.5mm) flatted shaft is 0.75" long. Oval, 63 x 49 x 23mm deep. Two mounting holes on 48mm (1.875") centers. 32" pigtail leads. cULus.



CAT# ACM-135 \$4.25 each

50 RPM AC MOTOR

Synchron# M945. 50RPM timingtype motor. 120 Vac, 60Hz, 8W. 47mm dia. x 24mm. Gear box is 59mm x 47mm oval x 19mm. 3.5mm (1/8") diameter shaft with brass gear attached. 7" pigtail leads. CAT# ACM-93 \$5.00 each



24 VAC 4.1 RPM GEAR MOTOR

Airbax # S94-0200. 24VAC 60Hz, capacitor run, gear motor. 52.5mm diameter x 45mm. Shaft is 5.5mm diameter x 41mm long with a 9.5mm copper bushing on the lower 11mm of the shaft. Three tapped mounting holes in face of motor. Four 150mm pigtail leads.

Note: Motor specifies requirement of 10 uF capacitor. We don't currently have any in stock, but do have a 11uF, CAT# MPC-11. The capacitor is put in series with the windings, between one white lead and either the red or brown lead. Power is applied to the two unused leads

CAT# ACM-200 \$6.50 each

LINEAR ACTUATOR FOR AUTO DOOR LOCK

12 Vdc motor-drive actuator for automotive door locks. Nylon plunger moves 0.75". Push or pull, depending on polarity. Includes mounting hardware and a 10" metal



extension rod which fits through the hole in the end of the plunger. Overall dimensions of actuator assembly (retracted): 8.42" x 2.35" x 1.15". Rubber boot protects against moisture and dust. Pigtail leads. CAT # DLA-1 \$5.50 each

GEARS & ROTATING PARTS

PLANETARY GEARHEAD, USED

Mates with Faulhaber 2342 and similar motors with four mounting holes on 26mm centers and an 11mm dia. mating gear with 18 teeth. Gearbox

dimensions: 32mm x 32mm x 25mm. 6mm dia. shaft is 35mm long. Exact specs unknown. Final rotational speed was approximately 120RPM when used with Faulhaber 2342 motor at 12Vdc. CAT# GH-2

\$3.75 each

GEAR ASSEMBLY

Made for a Kodak 35mm film scanner, this high-quality plastic gear train contains four gears. Three are identical dual gears with 36 and 10 teeth. The other has 18 and 22 teeth. The unit snaps together and apart.



Overall dimensions: 63 x 34 x 26mm. CAT# GR-131 \$2.25 each

GEARBOX 2 IN 1. MOTOR GEARS & ACCESSORIES

Velleman Kits # KNS7. Fun with gears and motors. Small 3 Vdc motor, metal bracket and axles, and an assortment of small plastic gears and collars to produce a gear train of various ratios. CAT# GR-84 \$11.95 each



MINIATURE ROLLER CHAIN

CONTRACTOR DU DU DU DU DU DU DU DU DU

Works with 1/4" pitch chain sprockets below. CAT # CHN-25 \$ 2.50 per foot

MASTER LINK for # 25 roller chain CAT # ML-25 \$1.00 each 82

MATING GEARS

All gears in this section mate with one another

5 GEAR

ASSORTMENT

Five matched break-resistant plastic gears ranging from 0.44" dia.(10 teeth) to 2.02" (50 teeth). Gears are molded with



0.15" (4mm) bores and come with inserts which reduce the bore to 0.065" (2mm) diameter. CAT# GR-5 \$2.75 per set - includes 5 gears and 5 inserts • 10 sets for \$20.00

4 GEAR SET

Four matched unbreakable plastic gears. The three larger gears are heveled on one side and can mesh



at 90° as well as the normal 180° angle. They have 5mm bores. Inserts are supplied to reduce the bore size to 3mm. The smallest gear has a 2mm bore. Gears are 41, 31, 21 and 13mm. CAT# GR-86 \$2.25 each

2 GEAR SET

Two nylon gears: <u>26 coq.</u> 1.08" diameter x 0.27" wide. 0.18" collar. 0.25" dia. bore.



<u>34 cog,</u> 1.41" diameter x 0.23" wide. 0.1" collar. 0.33" diameter flatted bore. CAT# GR-109 \$1.75 per set

COMPOUND GEAR 21 & 14 COG

0.77" D x 0.46" 0.53" D x 0.28". 6mm bore. CAT# GR-78 50¢ each

30 TOOTH NYLON GEAR

32mm diameter x 11mm wide. 8mm bore. CAT # GR-126 75¢ each

38 TOOTH METAL GEAR

40mm diameter x 8.0mm wide. 8mm flatted bore. CAT # GR-127 \$1.50 each



SPROCKETS FOR #25 CHAIN

24 tooth, 2" diameter, metal sprocket 13/32" (10mm) half-moon bore with 10mm collar. CAT# GR-100 \$1.50 each

42 TOOTH ROLLER CHAIN SPROCKET

42 tooth sprocket for #25 roller chain. 3.5" diameter. Attaches to half-moon shaft. CAT# GR-123 \$2.00 each





ORDER TOLL FREE 1-800-826-5432

607Z BEARING

19mm O.D. x 7mm I.D. x 6mm (0.75" O.D. x 0.29" I.D. x 0.24"). CAT# BR-21 \$2.50 each 10 for \$2.00 each

THRUST BEARINGS

39MM O.D.

Timken Torrington Needle Bearing # NTA-1625. 39mm O.D., 25.5mm I.D., 2.0mm thick CAT# BR-19 \$1.75 each

31.5MM O.D.

31.5mm o.d. x 19.5mm i.d. x 2mm thick. 20 roller bearings in race with outer ring. CAT# BR-18 \$1.00 each

3" O.D.

INA BEARING CO # FC66141.6 40 roller bearings in race with outer ring. Dimensions including outer ring: 3.03" O.D. x 2.2" I.D. x 0.16" high. CAT# BR-9 \$ 1.50 each

1.27" O.D.

Eleven 0.25" diameter ball bearings. 1.27" O.D., 0.66" I.D. \$1.00 each CAT# BR-10



0000

NEW WINDOW

ALUMINUM ROLLER W/ BEARINGS

8" long x 1.05" diameter aluminum roller on a 9.75" x 0.375" diameter metal axle. Ball bearings at both ends, NMB # RI-1438D. CAT# RW-7 \$4.95 each

MINI BEARING

11mm diameter x 15mm long roller assembly. 5.5mm diameter bore. Bearings at both ends. One end has a slightly raised and rolled 8mm diameter bushing. CAT# BR-12 70¢ each



PLASTIC PROPELLERS

Make your own model airplane or swamp boat with these unbreakable plastic propellers.

7.25" BLACK

black plastic propeller. 0.75" cone in center with 1/8" bore. CAT# PRP-1 2 for \$1.00

7" RED 1/16" bore. CAT# PRP-2 3 for \$1.00







MINI AUDIO

MP3 PLAYER W/ MICRO SD CARD AND READER Autor SarOlisk 100 -

Sansa slotMusic Player. An inexpensive, easy-to-use MP3 player. Simply pop in a MicroSD card, plug in headphones or external amplifier

into the standard 3.5mm stereo jack, and hit play. You can play, pause,

skip through tracks and change volume using buttons on the device. Pocket-sized device with a durable feel 36 3 x 72 x 15 3mm

Includes 1GB MicroSD card and MicroSD card reader, so you can load your own MP3 tracks via the USB port on a computer. Operates on one AAA battery (not included). Headphones not included. CAT# MP3-1 \$8.95 each

MINI-STEREO AUDIO AMPLIFIER W/

SPEAKERS Miniature 4W (2 x 2W) stereo amplifier with speakers and



battery holder. 3.5mm stereo phone plug input connects to many portable audio sources, MP3s, iPods etc. The on-off switch and volume control are in a 34mm square module attached to the amplifier with a 29" flat cable. The speakers are 1.30" x 1.45" x 0.36" cone-less, flat-panel speakers with narrow bandwidth. The amplifier sounds much better with traditional 4 Ohm cone-type speakers. Operates on four AA batteries, not included.

CAT# AMP-5 \$6.50 each

AMPLIFIED STEREO MINI-SPEAKERS

Crisp, clear amplified sound for your iPod or portable music player. Requires a bit of minor surgery. Cut off the pro-



prietary Sony-Ericsson plug, and attach a 3.5mm stereo phone plug and a power source (batteries or power supply). Color-coded wires in control cable are easy to identify (see online spec sheet). Speaker dimensions: 2.1" high x 1.8" wide x 1.2" deep.

CAT# AMP-8 \$7.50 per pair



12 Vdc devices, up to 6 Amps each. Four receivers in one package. 3.25" x 2.97" x 1.22" thick. Hand-held transmitter has four sets of on-off buttons and a telescoping antenna. Transmitter operates on 12V alkaline battery (included).

CAT# RC-13 \$38.00 each

1/4 & 1/2 WATT RESISTORS 5% CARBON FILM

			-00		
1.0	20	300	3.9 K	51 K	680 K
1.5	24	330	4.3 K	56 K	750 K
1.8	27	360	4.7 K	62 K	820 K
2.0	30	390	5.1 K	68 K	910 K
2.2	33	430	5.6 K	75 K	1.0M
2.4	36	470	6.2 K	82 K	1.1 M
2.7	39	510	6.8 K	91 K	1.2 M
3.0	43	560	7.5 K	100 K	1.3 M
3.3	47	620	8.2 K	110 K	1.5 M
3.6	51	680	9.1 K	120 K	1.6 M
3.9	56	750	10 K	130 K	1.8 M
4.3	62	820	11 K	150 K	2.0 M
4.7	68	910	12 K	160 K	2.2 M
5.1	75	1.0 K	13 K	180 K	2.4 M
5.6	82	1.1 K	15 K	200 K	2.7 M
6.2	91	1.2 K	16 K	220 K	3.0 M
6.8	100	1.3 K	18 K	240 K	3.3 M
7.5	110	1.5 K	20 K	270 K	4.7 M
8.2	120	1.6 K	22 K	300 K	5.1 M
9.1	130	1.8 K	24 K	330 K	5.6 M
10	150	2.0 K	27 K	360 K	6.2 M
11	160	2.2 K	30 K	390 K	6.8 M
12	180	2.4 K	33 K	430 K	7.5 M
13	200	2.7 K	36 K	470 K	8.2 M
15	220	3.0 K	39 K	510 K	9.1 M
16	240	3.3 K	43 K	560 K	10 M
18	270	3.6 K	47 K	620 K	

1/4 WATT RESISTORS Minimum order is 10 PIECES OF ONE VALUE.

10 PIECES OF ONE VALUE. 10 PCS of 1 VALUE 65¢ 100 PCS of 1 VALUE \$3.75

Minimum order is 10 PIECES OF ONE VALUE. 10 PCS of 1 VALUE 80¢ 100 PCS of 1 VALUE \$4.50 200 PCS of 1 VALUE \$7.40

1/2 WATT

RESISTORS

200 PCS of 1 VALUE \$6.00 1,000 PCS of 1 VALUE \$14.00

CAT# = 291-VALUE

1,000 PCS of 1 VALUE \$18.00 CAT# = 293-VALUE

for example... to create CAT# for resistors... 5.6K ohm 1/4 watt = CAT# 291-5.6K 10 ohm 1/2 watt = CAT# 293-10

610 PIECE 1/4 WATT RESISTOR ASSORTMEN

10 each of 61 resistance values from 10 Ohms to 1 Meg. 5% tolerance. CAT # RES-61

\$11.50 per package



ADJUSTABLE POWER RESISTORS

2250 OHM, 25 WATT

2.5" long x 0.65" diameter ceramic power resistor with slider for adjustment. **CAT# 2250-25A** \$1.50 each



2500 Ohm ceramic resistor. Resistance can be adjusted down to approximately 1300 Ohms using the adjustable slider. 4.0" long x 0.63" diameter. Solder terminals. CAT# 2500-50A \$2.50 each

POWER RESISTORS

ohms	watts	<u>style</u>	<u>ohms</u>	watts	<u>style</u>
.33	3	axial	200	5	sand
.5	3	axial	250	5	sand
.5	4	axial	300	5	sand
.5	5	axial	350	50	ceramic
.51	5	axial	390	7	sand
.75	5	axial	400	20	sand
.75	5	sand	1K	3	axial
1	5	sand	1K	5	sand
1.3	5	axial	1K	15	sand
1.5	2	axial	1.2K	5	sand
2	25	ceramic	1.4K	22	sand
10	25	ceramic	1.6K	3	sand
12	3	sand	2K	18	sand
25	50	ceramic	2.2K	3	axial
120	5	sand	4770	25	aluminum
120	40	ceramic			

POWER RESISTOR PRICING

1 - 5 watts	6 - 10
3 for \$1.00	2 for \$
31-50 watts	

\$2.00 each

sand

 watts
 11 - 30 watts

 \$1.00
 \$1.00 each



aluminum ceramic

ANTENNAS

2.4 GHZ DESKTOP ANTENNA 2.4GHZ desktop antenna for WLAN terminal applications. 4" high. 3" diameter weighted rubber base. SMA-R connector on 6' cable.

CAT# ANT-37 \$3.50 each

2.4 GHZ ANTENNA

Laird #WCR2400SMRP. 2.4-2.5 GHZ. 1/2 wave dipole antenna. 1 DBI gain. 50 ohm impedance. 95mm overall length. Gold-plated, reverse polarity SMA connector. -40 +80c temp. 90 Deg. knuckle. **CAT# ANT-36** \$3.00 each

916 MHZ 1/4 WAVE ANTENNA

Linx Technologies Inc. #ANT-916-JJB-RA Embeddable 1/4-Wave Monopole Antenna, 916 MHz (901-931 MHz). 50 ohm impedance, omnidirectional. 7mm diameter x 14.5mm high, right-angle mount. Through-hole feedline can attach directly to PC board. Okay for internal or external mounting.

CAT# ANT-38 \$1.35 each

SIRIUS SV3/SV4 ANTENNA 3 foot cable with 3.5mm mono plug.

CAT# ANT-45 2 for \$1.00 • 100 for 35¢ each

MANUFACTURERS We Purchase Excess Inventories. CALL, WRITE, E-MAIL or FAX your list.

ORDER TOLL FREE 1-800-826-5432

SOLAR CELLS

60MM SOLAR CELLS

output: approximately 3 Volts @ 40 mA. 60mm square x



 Smm thick epoxy-encapsulated silicon photovoltaic cell. Solid, almost-unbreakable module with solderable foil strips on backside. Ideal for solarpowered battery chargers and other projects.
 CAT# SPL-61 \$3.75 ea. • 100 for \$3.25 ea.

SOLAR PANELS

Rugged photovoltaic solar panels. Sealed to withstand rain, snow and wind. Multicrystalline silicon solar cells in a



heavy-duty anodized aluminum frame. High-transparency, low-iron tempered glass. Junction box with screw or solder terminals. CE.

Watt	Volt	Dimensions	CAT#	<u>each</u>
3	12	188 x 195 x 17mm	SPL-003	\$17.95
5	12	265 x 220 x 18mm	SPL-005	\$28.95
10	12	302 x 357 x 30mm	SPL-010	\$52.00
15	12	428 x 357 x 30mm	SPL-015	\$75.00
20	12	567 x 357 x 30mm	SPL-020	\$94.35

SOLAR BATTERY CHARGERS

Water-proof, corrosion-proof solar cell arrays with adjustable mounting stands and alligator clip leads. UVproof polycarbonate plastic case. Built-in blocking diode to prevent discharge at night.

<u>6 VOLT</u>

630 mW max power. Maximum voltage, 9 Volts (no-load). Current, 60-70 mA. 5.9" x 3.5" x 0.67" **CAT# SPL-606** \$19.95 each

12 VOLT

1260 Mw max power. Max voltage, 18 Volts (no-load). Current, 60-70 mA. 6.8" x 6.2" x 0.68" CAT# SPL-6012 \$27.95 each

10W 12VDC

Rugged photovoltaic solar panel ideal for maintaining charge on car, truck, motor-cycle and other vehicle or power machine batteries. Can also charge and maintain smaller devices and appliances when used with controller like our







CAT# SCN-2 or SCN-3. Sealed to withstand rain, snow and wind. Multicrystalline silicon solar cells in a heavy-duty anodized aluminum frame. High-transparency, low-iron tempered glass. Built-in blocking diode. 3 Meter cable with red and black battery clamps. Panel dimensions: 302mm x 357mm x 30mm. **CAT# SPCK-10** \$65.85 each

DC VOLTAGE CONTROLLERS FOR SOLAR PANELS

Prevents battery from being overcharged and over-discharged. Coordinates the functioning of solar panel, battery and load.



<u>3 AMP</u> 12Vdc output. 2.53" x 11.78" x 1.05" CAT# SCN-1 \$17.00 each

<u>4 AMP</u> 3, 6, and 12Vdc output. On-off switch. 4.78" x 3.05" x 0.88" **CAT# SCN-2** \$37.95 each

10 AMP 12Vdc output. 4.04" x 3.75" x 1.50" **CAT# SCN-3** \$46.00 each

THERMOELECTRIC COOLERS

Using the Peltier effect these miniature solid-state heat pumps perform the same cooling or heating functions as freon based refrigerators, but they do it with no moving parts and are very reliable. Current applied to the device will produce heat on one side and cold on the other, up to 68C difference between the two sides. Modules can be mounted in parallel to increase the heat transfer or can be stacked to achieve high differential temperatures.

12 VDC HEATER/COOLER ASSEMBLY

Driven by a 40 mm square Peltier, thermoelectric heat pump. Operates on 13 Vdc @ 5 Amps. Operating at 13 Vdc, we measured the hot side at 190° F and the cold side at 55° F.

The hot side of the Peltier device is connected directly to a 4.0" x 4.5" x

1.5" heatsink. The cool side connects via an aluminum block to another heatsink that is 5.0" x 5.0" x 1.25". Overall thickness is 3.8". 8" wire leads. Weight: 2.6 lb. Spec sheet available in PDF format on our website.

CAT# PJT-10 \$35.00 each

40MM X 44MM THERMOELECTRIC COOLER

New thermoelectric devices, prepped with a temperature cutoff switch. Originally intended for 12Vdc use in picnic and automotive coolers/ heaters. 127 thermocouples per device. deltaTmax=79°C, Thot=50°C, Vmax=16.1V. 40MM x 44MM x 3.3MM. Qmax=80.6W, Imax=8.1A **CAT# PJT-7** \$14.75 each 10 for \$13.75 each

> SOLAR POWERED CALCULATOR



AC POWER CORDS

18/3 IEC POWER CORDS

Standard IEC (SPH-386) power cords. IEC female connector

one end, standard 3 prong grounded AC plug other end. SVT, UL,CSA.

3' **CAT# LCAC-303** \$2.50 each 10 for \$2.25 each • 100 for \$1.75 each

5' **CAT# LCAC-305** \$3.00 each 10 for \$2.75 each • 100 for \$2.00 each

6' **CAT# LCAC-60** \$3.50 each 10 for \$3.25 each • 100 for \$2.25 each

10' SVT **CAT# LCAC-310** \$4.50 each • 10 for \$4.00 each

3 CONDUCTOR LAPTOP

POWER CORD Black, 6 ft., 3-conductor, grounded power cord. Frequently used with lap-top computers. SVT round cable. UL, CSA. CAT# LCAC-187 \$3.00 ea.



2 CONDUCTOR DETACHABLE

Non-polarized. Sometimes referred to as "Panasonic-type" cord. 2 holes on 0.335" centers.

CAT# LCAC-390 \$2.70 each • 10 for \$2.50 each

2-CONDUCTOR POLARIZED

CHEATER CORD 6' black 18/2, SPT-2 polarized cheater cord. Molded socket and plug. Rated 7A, 125V. UL, CSA. CAT# LCAC-400 \$2.50 each • 10 for \$2.25 each



POWER CORD Y-CABLE

3-conductor 16AWG Y-cable. SJT 75C. Overall length, 14". UL. CAT# LCAC-410 \$4.35 each • 10 for \$4.00 each

EURO POWER CORD

8' grey power IEC power cord. Molded 2-prong Euro right-angle plug one end, IEC 3-prong connector other end. Cords are new, but may have scuff marks from storage conditions. **CAT# LCAC-409** \$3.00 each • 100 for \$2.25 each

2-CONDUCTOR POWER CORDS WITH PIGTAIL LEADS

6' 18/2, SPT-1 black power cord. Polarized male plug. CSA. **CAT# LCAC-412** \$1.25 each

A.C. SOCKETS

3-PRONG GROUNDED SOCKET

Leviton # 114. Heavy-duty 3 prong socket for AC power cords. For 0.396" to 0.562" diameter cords. 18-14 AWG stranded conductors. Rubberized shell resists chemicals and remains flexible even in low temperatures. UL, CSA. **CAT # ACS-27** \$4.20 each 10 for \$3.85 each

15 AMP GROUNDED OUTLET

Leviton# 1374-001 or equiv. Black, three-conductor outlet. Snap-mounts in 1" square cutout. Rated 15 Amps @ 125Vac. Two 6" 14 AWG leads and one 6" 16 AWG ground lead. UL, CSA. **CAT# ACS-31** \$1.20 ea. • 100 for 95¢ ea.

GROUNDED AC PLUG

Leviton # 515PR.

Black 15 Amp grounding 3-wire AC plug. Rubber body is dirt and moisture resistant. Tough elastomeric husk. Built-in cord grip adjusts to 0.245" to 0.655" cords, 18-3 to 12-3. UL, CSA. CAT# ACP-8 \$2.75 each • 10 for \$2.50 each



AC ADAPTORS

3-WAY Hard rubber, 3-way grounded power tap. Rated 15 Amps @ 125 Vac. UL, CSA. **CAT# TPA-1** \$2.00 each 10 for \$1.85 each



Use a 3-prong plug in a 2-conductor outlet. CAT# ACP-10 \$1.00 each

2-OUTLET PIGGYBACK

6" 16-gauge grounded power cord. Pass-thru outlet changes a standard outlet to two adapter ready outlets. Adds flexibility to a conventional power strip. cULus, RoHS. **CAT# LCAC-1020** \$2.75 each

SURGE PROTECTOR, 6-OUTLET

Protect computers, phone equipment, VCRs and other sensitive devices from electrical transients and glitches. **CAT# PW-101** \$5.95 each



INTERNATIONAL PLUG ADAPTERS

EURO TO USA Converts 2-pin round European plugs to 2-pin flat power plugs. CAT# AP-USA \$1.50 each • 10 for \$1.25 each

USA TO EURO

Converts 2-pin flat USA plugs to 2-pin round Euro plugs. Can be used with 3-pin grounded USA plugs, but ground pin is voided. **CAT# AP-EU** \$2.00 0



VISIT OUR WEBSITE - WWW.ALLELECTRONICS.COM

RFI/EMI FILTERS

1 AMP RFI FILTER

Schurter #5110.0143.1. Snap-in IEC power entry module with 1 Amp RFI filter. Snap-mounts in 1.1" x 0.85" cutout. New modules, prepped with wire leads. UL. CAT# FTR-40 50¢ each

3 AMP POWER LINE FILTER

Corcom # 3EEA1. Compact single stage EMI filter with standard 3-prong IEC (60320-1 C-14) inlet. Two element circuit provides basic attenuation. Mounting holes on 40mm centers. 0.25" qc/solder terminals. UL CSA. CAT# FTR-33 \$2.50 each

IEC POWER INPUT

Mounting ears with holes on 1.575" (40mm) centers. 0.25" qc / solder connectors. Rated 15A 250Vac. UL, CSA. CAT# ACS-48 \$1.25 each 10 for \$1.10 each • 100 for 90¢ each



SNAP-IN IEC RECEPTACLE

Standard 3-conductor, grounded IEC input receptacle. Rated 10A 250V. Snap-mounts in 20 x 28mm rectangular chassis cut-out, up to 2mm thick. 0.25" qc / solder terminals. UL, CSA. CAT# ACS-50 85¢ each





Schurter #6150-5515 15A 125/250V. PC terminals. UL, CSA. CAT# ACS-52 85¢ each

RIGHT-ANGLE PC MOUNT

10 Amp / 250 Volt. Mounting holes on face and flange base on 40mm centers. Ground pin also has a solder-loop terminal. UL, CSA, VDE. CAT# ACS-42 75¢ each



CAT# ACS-42 75¢ each 10 for 65¢ each • 100 for 50¢ each

MALE IEC RECEPTACLE

Arcolectric #0718-1-PW. IEC power outlet. Rated 10A, 250V. Snap-mounts in 1.29" x 1" chassis cutout. 1.25" behind-panel-depth. 0.25" qc / solder terminals. DVE. **CAT# ACS-46** 75¢ each 10 for 65¢ each • 100 for 55¢ each



MALE IEC RECEPTACLE, PC MOUNT

Schurter # 6650-4515 15A 1125/250V. PC terminals. UL, CSA. **CAT# ACS-53** 85¢ each 10 for 75¢ each



STRAIN RELIEFS

Prevent power cords from pulling, pushing, or twisting in chassis hole. CAT# WIRE TYPE HEYCO# HOLE PRICE

CAT#	WIRE TYPE	HEYCO# or equiv.	HOLE SIZE	PRICE
SR-40	flat 18/2 SPT-1	4P-4	.45"	10/ \$1.00
SR-60	flat 18/2 SPT-2	4N-4	.50"	10/ \$1.00
SR-50	18/2, 18/3, SV, SVT round	5L-1	.50"	10/ \$1.00
SR-18	round, 0.2" dia.	5P3-4	0.5"	10/ \$1.00
	18/2, 18/3, 16/2, 6 T, SJO round	/3 SV, 6N-4	.65"	10/ \$1.50
	18/3, 16/3, SJ, T, SJO round	6N3-4	.625"	10/ \$1.50
SR-63	S, ST round. 14/2	14/3, 12/2 8P-2		10/ \$1.50
SR-34	flat up to 0.29" X 0).65" SR34-2	0.875"	2/\$1.00
SR-54	Right-angle. For fl	at SPT-1. SR 13-1	0.437"	10/\$1.00
SR-65	for round cables 0	.30" - 0.36 HS2-2	" (7.6 - 9 9/16"	9.1mm). 45¢ each

METAL OXIDE VARISTORS

TNR # 15G470KM. 15mm diameter. 47V. CAT# 15G470KM 4 for \$1.00

7K180. 0.45" cut leads. **CAT# MOV-180C** 4 for \$1.00 • 100 for 17¢ each

1000 V RMS, 220 Joules, 4500 Watts Peak Current. 0.62" dia. x 0.30" thick radial package. UL. **CAT# MOV-80** 2 for \$1.00 • 100 for 35¢ ea.

Littelfuse # V250LA10P. 10mm. 250V 40 Joules. CAT# V250LA10P 5 for \$1.00

250V 65 joule 14mm. Siemans/Matsushita #S14K250G5S5. CAT# MOV-250 4 for \$1.00 • 100 for 20¢ ea.

General Electric # MOV 100Z15. Radial metaloxide varistor. Low to medium voltage applications. 0.6" dia. x 0.23". **CAT# MOV-15** 4 for \$1.00

Littelfuse V420LA40B or equivalent. 20mm dia. 420Vac, 160 Joules. **CAT# MOV-420** 3 for \$1.00 • 100 for \$20.00

AXIAL STYLE

AVX# VA100014A300T. Working voltage: 14Vdc. Clamping voltage: 32V. CAT# VA-14 3 for \$1.00 • 100 for \$25.00

AVX# VA100005A150T Working voltage: 5.6Vdc Clamping voltage: 18V CAT# VA-5 3 for \$1.00 • 100 for \$25.00

P6KE8.2A. 600 Watt. 5.0 Watt steady state. 8.61V breakdown voltage. Maximum clamping voltage, 12.1V. **CAT# P6KE8.2A** 5 for \$1.00 100 for 15¢ each

PASSIVE DELAY LINE

ECC (Engineered Components Company) # EC2 WS-501. Miniature SIP passive delay line for use in analog applications. Also compatible with low level signal levels of TTL and ECL. 0.4" x 0.2" x 0.2" high. 3-pin SIP package. Delay Time, 1 ns +/- 0.2. Rise time, 1.2 ns. Impedance, 50 Ohms. DCR, 0.2 Ohms. **CAT# DL-501** 50¢ each

ORDER TOLL FREE 1-800-826-5432

PC MATERIALS

MAKE PC BOARDS IN MINUTES From PHOTOCOPIER or LASER PRINTER

PRESS-N-PEEL by Techniks. The easiest and quickest way to transfer pc board patterns to copper-clad board. Works great with CAD and PCB layouts as well as artwork from magazines and books.



No need for photochemicals or

darkroom; use a photocopier or laser printer to transfer your design to the special **PRESS-N-PEEL** film. Then, simply iron the design onto a clean copper-clad board with a household iron. Peel off the film, and the board is ready for etching (etchant solution not included).

Note: We are getting reports that PnP isn't working well with later model Brother brand copiers and laser printers.

PRESS-N-PEEL consist of five 8 1/2" X 11" sheets of transfer film and complete instructions.

CAT# TEK-5 \$11.95 2 packs (10 sheets) \$17.50 5 packs (25 sheets) \$37.50

DRY CONCENTRATED ETCHANT

1/4 lb. of anhydrous ferric chloride. Makes one pint of etch solution, enough to etch 200 square inches of copper-clad board.

CAT# ER-3 \$6.25 each

TINNIT BRIGHT TIN PLATE

Designed to plate bare copper circuit boards to enhance solderability. The material is supplied as a dry mixture with an indefinite shelf life. When mixed with water, it has a shelf life of approx. two months. No electricity required. Will plate up to 600 square inches. Makes 1 pint.



CAT# ER-18 \$9.50 each

COPPER CLAD BOARDS

SINGLE-SIDED PC BOARDS

4" X 6" X 0.062" thick. CAT# PCB-46 \$4.00 each

6" X 12" X 0.062" thick. CAT# PCB-612 \$8.00 each

ETCH-RESIST PENS

Use to touch-up artwork or manually add a trace on copper pc boards. Lacquer ink resists etching. May also be used on clear films for positives. Black ink.

FINE POINT PEN CAT# ER-15 \$2.50 each



EXTRA FINE POINT PEN

CAT# ER-25 \$2.50 each

PURETRONICS CLEANERS & SPECIALTY PRODUCTS

Aerosol chemicals, ground shipments only

CONTACT CLEANER

Quick penetrating, zero residue contact cleaner removes oils, greases, grime, dirt silicones, fluxes and other contaminants. Evaporates quickly. Safe on plastics and metal materials. Ozone friendly containing no CFCs or HCFCs.



5.5 oz **CAT# PTR-3000** \$6.10 each 13.25 oz **CAT# PTR-3500** \$8.25 each

CONTACT CLEANER AND LUBRICANT, 13 OZ

Removes oils, dirt and other contaminants and leaves a thin coating of silicone to lubricate and protect. Safe on plastics. Ozone friendly. 13 oz aerosol can. **CAT# PTR-5000** \$8.50 each



CIRCUIT FREEZE

Helps locate thermal intermittent defective resistors, capacitors and semiconductors. Helps locate cold solder joints and pc board cracks. 10 oz trigger-control spray can. **CAT # PTR-7400** \$ 13.75 each

FLUX REMOVER, 13 OZ CAN

Removes most types of flux including rosin and rosin based no-clean flux. Dissolves and flushes away fluxes, oils, grease, grime, dirt, silicones and other contaminants. Evaporates quickly. Safe on plastic and metal surfaces. 13 oz aerosol can. **CAT# PTR-6000** \$9.25 each



VALUE DUSTER, 10 OZ CAN

Moisture free, zero residue dusting gas. Removes dust, dirt, lint and other contaminants. Up to 70 psi. For general purpose applications. Excellent preventative maintenance tool for electronics, optical and mechanical components. Blend of 134A and DME. 10 oz trigger-control aerosol can. **CAT# PTR-7000** \$8.95 each



60CC CAPACITY

Measurements markings for up to 2 oz and 60cc. Includes removable/



re-usable cap for storing liquids in syringe. CAT# SYR-4 \$1.50 each

PLASTIC SYRINGE

10CC CAPACITY SYRINGE

Allegiance® Luer Slip # SY35010LS. Plastic syringe with measurement markings for 1-10ml. Sterile. Disposable. Designed for single use. **CAT# SYR-5** 75¢ each 10 for 60¢ each



FAST FRIENDLY SERVICE

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CAIG CLEANERS, **CHEMICALS and COATINGS**

CONDUCTIVE SILVER/CARBON COAT-ING CAIKOTE 44™

1 oz. Repair membrane buttons and keypads and other carbon and silver based surfaces. EMI/ESD shielding. Use on rubber, epoxy, glass and plastic surfaces. No mixing required.

CaiKote 44

CAT# CK-44 \$9.95 each

CIRCUIT WRITER™ CONDUCTIVE PEN

Draw traces on circuit boards. repair defective traces, make jumpers, shield electronics, design prototypes, repair rear window heater traces. Highly-conductive polymer for use on a variety of materials. EMI/ESD shielding. CAT# CW-100P \$24.95 each

DEOXIDIXING SOLUTION

DeoxIT® D5 cleans, lubricates, protects and improves conductivity on metal connectors, contacts and surfaces. It is ideal for stationary and moving contact connectors. Stabilizes connections between similar and dissimilar metals 5 oz CAT# D5S-6 \$16.95 each

DEOXIT (R) TIP TINNER

- For cleaning and protection
- of soldering iron tips.
- Prevents oxidation of tips.
- 14.2 grams

CAT# TPC-14 \$9.00 each

ADHESIVES

SUREHOLD® PYTHON GLUE

A high strength adhesive used to bond tough projects including wood, ceramics, stone, metal, brick, foam, fiberglass and more. Fully cures 72 hours. 2 fl. oz. CAT# SH-352

\$4.25 each

SUPER GLUE DOUBLE PACK

Bonds non-porous surfaces in seconds. Easy to use. Works on artificial nails, ceramics, crafts, china, jewelry, rubber, leather, wood, metal, many plastics and more. Two tube net weight 0.14 oz (4g) total. CAT# SH-375

\$1.99 pack

SUREHOLD® PERMANENT STRENGTH THREADLOCKER

For locking studs and press fits. Resealable, 15-25 applications per tube. Net weight 0.076 oz (2ml).Comparable to Loctite® 271.

CAT# SH-481 \$1.99 each

THREAD LOCKER

SAF-T-LOK T42 #24221 (10ml bottle). Blue, medium-strength, removable threadlocker. Prevents loosening of nuts and bolts due to vibration. Locks, seals, retains metal assemblies. Removable with normal tools. Chemical/oil resistant. Note: 2012 exp. date.

CAT# SL-421 \$1.50 each 10 for \$1.30 each

CONDUCTIVE GLUE

An all-purpose, electrically conductive glue ideal for bonding all kinds of low-voltage connections. Makes a permanent bond without heat. Lead-free, 0.3 fl.oz, jar. CAT# WG-1 \$3.98 each



3/4" x 60' ELECTRICAL TAPE

Vinyl electrical tape. 3/4 inch x 60 feet Suitable for use at not more than 600V and not more than 80°C (176°F). UL listed.



BLACK CAT# PET-1 95¢ each • 10 for \$8.00

COLORS CAT# PET-XX (XX=color) \$1.25 each i.e. orange (OR), green (GN), brown (BR), blue (BL), grey (GY), red (RD), white (WT), yellow (YL)

TAPE AND SEALERS

COAX SEAL

A space-age plastic material which quickly and effectively seals all types of coax fittings from moisture and corrosion. Stays flexible for years. Allows you to disconnect fittings and reseal them with the same material. Adheres to vinyl and poly vinyl



insulation. 60" x 1/2" wide roll suitable for 9 fittings. CAT# COS-1 \$3.65 each

SELF-FUSING RUBBER TAPE

Stretch and wrap self-fusing rubber tape for a moisture-tight, insulating seal on electrical connections. High resistance to salt water, steam and oil. Stretch a 2-3" piece of

tape and wrap it spirally around the object with a 50% overlap. In minutes the tape will react with itself to provide protection from moisture, most chemicals, and provide insulation to 490V per mil. Since the tape does not use mastic or adhesive it can be removed easily without leaving any residue. 1" x 16.4' roll. (0.8mm x 25mm x 5m). CAT# SFT-5 \$4.50 each

THERMAL COMPOUNDS

1 gram white silicone thermal compound. Disposable cellophane package. CAT# TG-200 3 packs \$1.00 100 packs 25¢ each

HEATSINK COMPOUND, 2.5 GRAM SYRINGE



Designed for a wide range of applications between modern high-power CPUs and GPUs and high-performance heatsinks or watercooling solutions.

CAT# TG-25 \$6.20 each





istan Double Pack \$199

Super GLUE











MISCELLANEOUS

BLACK METAL CORNER

Heavy-duty black steel corner. Protects and supports cabinets and equipment. Three hole mounting. CAT# COR-303 \$1.00 each

ADJUSTABLE TORQUE HINGE

Southco #E6-10-501-20. Surface mount, adjustable torque hinge. Heavy-duty black plastic. 0.31" dia. mounting holes on 1.875" centers. Overall size of hinge: 2.5" x 2.23" x 0.75". Forward and reverse torque: 35 in lbs. Turn screw to adjust torque. CAT# HNG-1 \$2.00 each



plate or used separately from plate. Note: clamps removed from used equipment. CAT# CLMP-3

HOSE CLAMP, 2"

CLAMP. USED

1/2" stainless steel hose clamp for marine and underground use. 1 9/16" minimum diameter, 2 1/2" max diameter. Made in USA. CAT# CL-13 60¢ each 100 for 45¢ each

WALL-MOUNTABLE TUBE

aluminum saddle for up to 1" dia. pipes.

positioned horizontally or vertically on





\$3.00 each



RETRACTABLE SNAP-SWIVEL DEVICE 000

"The Duck Strap"

Original application: Attach to the bottom of duck decoys. Attach a weight to the snap-swivel. The weight sinks to bottom of pond, keeping decoy in place. 8.5" long x 1.75" diameter, black (nylon?) construction with rubber band device providing retraction. 10' line length. CAT# STR-7 Package of 6 for \$4.00

SPINAL COLUMN KEYRING

Miniature hard plastic replica of an anatomically correct spinal column with a key ring. 4" long. The perfect gift for aspiring or practicing chiropractors, physical therapists or massage therapists. CAT# KR-5 \$1.50 each

180CC / 6.5 OZ. GRADUATED CUP

Graduated plastic cup for medical use. cc/ml and fl oz. Ideal for measuring and mixing. Pour spout. CAT# CP-10 4 for \$1.00 100 for 20¢ each



ABRASIVE STRIPS

Great for smoothing and cleaning, these double-sided emery boards have a fine abrasive on one side and a coarser one on the other side. Six 2.5" strips per card.

CAT# EB-2 5 for \$1.00 • 100 for 15¢ each

100 x 54MM RUBBER PAD W/ ADHESIVE BACKING

1.5mm thick black soft rubber pad with peel-off adhesive backing. 100 x 54 x 1.5mm.

CAT# FP-3 5 for \$1.00 • 100 for 15¢ each

FLEXIBLE ACTUATOR CABLE

Like the brake cable on a bicycle, movement at one end of the cable produces movement over the same distance at the other end. Could be used for robotics or other mechanical control applications. 33.5" x 0.2" dia. sheath - 2.8" travel.

CAT# FAC-1 \$1.50 each 10 for \$1.25 each

4" ALUMINUM RACK HANDLE

4" x 2.25" high aluminum rack handle. Brushed satin finish. Tapped holes on 4" centers. CAT# HDL-39 \$2.00 each

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TERMINAL STRIPS

DUAL ROW TERMINAL STRIPS

UL94V-0 black thermoplastic. Brass, tin-plated terminals. Steel, Ni-plated screws.



DUAL ROW 20 AMP

Rated 20 Amps @ 300 Volts. Accepts wire from 22 to 14 AWG. 0.375" (9.5mm) centers. 0.85" wide x 0.52" high. Mounting holes on 8mm centers.

CAT#	Circuits	Length	<u>Ea</u>	<u>25</u>	<u>100</u>
TS-202	2	1.42"	.85	.74	.62
TS-203	3	1.79"	1.00	.87	.73
TS-204	4	2.16"	1.35	1.17	.97
TS-205	5	2.53"	1.66	1.44	1.22
TS-206	6	2.91"	2.00	1.74	1.45
TS-207	7	3.29"	2.14	1.86	1.70
TS-208	8	3.66"	2.66	2.31	1.95
TS-209	9	4.03"	3.00	2.61	2.20
TS-210	10	4.40"	3.31	2.88	2.45

JUMPER FOR TS-200 SERIES

Each jumper ties two consecutive terminals together. May be overlapped to tie more than two.



CAT# JMP-24 5 for 50¢ • 100 for \$8.00

3-POSITION, 10 AMP

Screw terminals on 9.5mm centers. Rated 10A @ 300V. 45 x 22 x 12mm. CAT# TS-323 65¢ each • 100 for 50¢ each

2-CIRCUIT, USED SPECIAL

Removed from new equipment, each strip is missing two screws. Buy two to get one complete strip. 35 x 22 x

11mm high (1.38" x 0.86" x 0.43" high). These are similar to our CAT# TS-202 which sell for 85¢ each.

CAT# TS-22 2 for 60¢ • 100 for 25¢ each

EUROSTYLE TERMINAL STRIPS

For connecting stripped wires from 8-22 AWG depending on the block size. Flexible white (natural) Nylon



66 body, 94V2 rated for 105° C. 400 Volts. All metal parts are completely recessed in the housing to prevent shorts. Each strip has 12 circuits, with a mounting hole between each circuit. Can be easily shortened with a knife or saw.

7 AMP For 22-18 wire. 3.78" x 0.67" x 0.57" high. 0.32"(8mm) terminal centers. UL, CSA, VDE. **CAT # TB-7** \$2.00 each 10 for \$1.80 each • 100 for \$1.60 each

20 AMP For 18-14 wire. 4.6" x 0.80" x 0.67" high. 0.39"(10mm) terminal centers. UL, CSA, VDE. **CAT # TB-20** \$2.25 each 10 for \$2.10 each • 100 for \$1.80 each

35 AMP For 14-10 wire. 5.51" x 0.93" x 0.74" high. 0.47"(12.2mm) terminal centers. UL. **CAT # TB-35** \$2.70 each 10 for \$2.45 each • 100 for \$2.15 each

50 AMP For 20-8 wire. 6.25" x 1.00" x 0.99" high. 0.53"(13.5mm) terminal centers. UL. **CAT # TB-50** \$4.00 each 10 for \$3.85 each • 100 for \$3.60 each

SINGLE ROW TERMINAL STRIPS

5-POS. TERM. STRIP, PC MOUNT

0.4375" center-to-center spacing. 3.185" long x 0.625" wide x 0.825" high. Mounting holes on 2.65" centers. CAT# TER-705 50¢ each



1-SCREW TERMINAL STRIP

Single screw on a 1.25" x 0.63" phenolic strip. Mounting holes on 0.75" centers. CAT# TST-1 4 for \$1.00

3-SCREW TERMINAL STRIP

2.10" x 0.63" phenolic strip with three screws. Solder lugs. Mounting holes on 1.75" centers.



CAT# TST-3 2 for 90¢ • 100 for 35¢ each

INTERLOCKING PC MOUNT TERMINAL STRIPS

PC mount screw-clamp blocks with terminals on 5mm (0.197") centers. Interlock two or three position blocks to provide strips of any required length. Accepts up to 14 AWG wire. Rated 10A, 300 Volts.

Side wire 0.55" hig Green.	e entry. h x 0.41" wide.	P	THE STATE
2	<u>CAT#</u> TER-202	<u>ЕАСН</u> 45¢	<u>100</u> 30¢ each
3	TER-203	60¢	45¢ each
Side wire 0.40" hig Blue.	e entry. h x 0.31" wide.	N.	
2	TER-502	40¢	25¢
3	TER-503	55¢	40¢

2 & 3 POSITION TERMINAL STRIP

One 2-position and one 3-position interlocking, pc mount terminal strip. Accept up to AWG 14 wire. Terminals on 7.5mm centers. 0.36" wide x 0.48" high. 2-position is 0.62" long.

0.36" wide x 0.48" nign. 2-position is 0.62" long. 3-position is 0.90" long.

CAT# TER-605 80¢ each • 100 for 60¢ each

2-TERMINAL "HIGH-BOY" INTERLOCKING STRIP Weco Series 150. 2-screw, side entry

terminal strips. "High-boy," 1.34" high x 0.40" x 0.42". Each 2-screw module interlocks with others to make strips of desired length. Screws clamp down on wire up to AWG 14. CAT# TER-402 4 for \$1.00

100 for 20¢ each

4-POSITION PLUGGABLE TERMINAL STRIP AND HEADER

Riacon 4-position screw-clamp terminal block and mating friction-lock header. Terminals on 5mm centers. For 12-28 AWG wire. Rated 6A/125Vac. UL, CSA. **CAT# TER-104** \$1.25 each



ORDER TOLL FREE 1-800-826-5432



KITS

A NOTE ABOUT KITS Kits cannot be returned or exchanged once assembly has begun. All parts supplied EXCEPT batteries.

L.E.D. FLASHER KIT

Two L.E.D.'s flash in unison when a 9 volt batterv is attached. This kit includes a p.c. board, all the parts and instructions to make a simple flasher circuit. A quick and easy project for anyone with basic soldering skills. CAT# LEDKIT \$2.25 each • 100 for \$2.00 each

ADJUSTABLE LED FLASHER KIT

Two potentiometers adjust the flash rate of two LEDs. 9V operation. Battery not included. CAT# MK-1021 \$4.95 each



LED CHASER KIT

Build this variable speed led chaser, 10 leds flash sequentially at whatever speed you set them for. Easy to build kit includes

pc board, parts and instructions. Ideal for special lighting effects, costumes, etc. Operates on 3 to 9 volts. PC board is 5" X 2.25".

CAT# AEC \$6.50 each 10 for \$62.50 • 100 for \$600.00

7 WATT MONO AMPLIFIER KIT

Velleman # K4001. Small amplifier constructed around a TDA2003 IC, capable of delivering 4 Watts RMS at 4 Ohms. Music power: 7 W @ 4 ohms. RMS output:



3.5 Watts @ 4 Ohms / 2 Watts @ 8 Ohms. Frequency response: 20 Hz to 20 KHz (-3dB). Overload and short-circuit protected. Operates on 15 Vdc @ 0.5Amps (8-18 Vdc). Dimensions: 2.2" x 1.4"

CAT# MK-4001 \$19.95 each

TRAFFIC LED LIGHT KIT

Miniature traffic light as used on four-way junctions. Realistic operation with adjustable delay. 12 LEDs. Great for model railroads, exhibitions, and toys. Low power consumption: 15mA. Power supply: 9V battery (not included). ON/OFF switch. 2 x 1.4 x 4.5" CAT# MK-131 \$9.00 each



ELECTRONIC CRICKET KIT

Drive your friends (or enemies) crazy. Automatically comes on when it gets dark. Adjustable chirp rate, light sensitivity and tone. 9V operation. Battery not included. CAT# MK-104 \$8.95 each

IR LIGHT BARRIER, KIT

Announce visitors, warn against burglars, set boundaries, for science projects, with audible (85dB) and visible (LED) alert. Range: 3.3ft to 13ft.

Power supply: transmitter: 9V DC / 50mA max. Receiver: 9V DC / 20mA max. 9V battery holder and adapter jack included. Transmitter: 2.2" x 1.6". Receiver: 3.9" x 2.0" CAT# MK-120 \$8.35 each

DC TO PULSE WIDTH CONVERTER

Velleman #K8004 Ideal for the accurate control of DC motors, lighting levels and small heaters as well as other applications.

The circuit converts DC voltage into a series of pulses, the duration of which is directly proportional to the voltage. Minimizes power loss in the control circuit. Overload and short circuit protection. Input Voltage: 2.5 - 35 VDC. Maximum output 8-35 Vdc, 6.5 Amps.

CAT # MK-804 \$28.95 each

INTERVAL TIMER KIT

Velleman # MK111. For intermittent operation of circuits and equipment. Use for blinking light control, slide projector control etc. Pulse time adjustable between 0.5 and 5 seconds. Pause time adjustable between 2.5 and 60 seconds. 3 Amp output relay. Power supply 12-15 Vdc @ 100 mA (not included). CAT # MK-111 \$ 9.95 each

RELAY OUTPUT CARD KIT

Velleman # K2633. Control up to four high-power circuits from a low power drive circuit. Four 3 Amp / 240 Vac, S.P.D.T. relays. Quick and easy to build. LED status indicators. 3" x 1.7." Power supply, 9Vdc, 300mA (not included). CAT# MK-2633 \$21.95 each

SIGNAL GENERATOR KIT

Signal output: sine wave, triangle, square wave and integrator (selectable through jumper). Signal frequency: about 1 KHz (fixed). Output level: adjustable from 0 to 100mVrms (LEVEL potentiometer). CAT# MK-105 \$10.95 each



UNIVERSAL MONO PRE-AMPLIFIER KIT

This kit was developed as a pre-module for a number of audio applications where



the input signal is too weak. Applications as a microphone pre-amplifier or for level correction. Compact design. Lower power consumption. Excellent frequency response. Frequency range: 20 Hz to 20 kHz. Output impedance: 1K Ohm. Maximum input level: 40 mV. Power supply: 10-30 Vdc / 10 mA. Dimensions: 1.2" x 1.7" CAT# MK-1803 \$12.85 each



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1W/3W HIGH-POWERED LED DRIVER

Power up to four 1W or two 3W high-power LEDs (not included). Delivers accurate constant current required by most high-power LEDs. High efficiency due to switch mode principle.

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Built-in rectifier for easy connection to AC source. Short-circuit protected. No heatsink required. Also suited as fixed current NiCd/NiMH battery charge circuit. 350mA or 700mA constant current source. Input voltage: 6-12Vac/9-18Vdc. Power consumption: 650mA max. 45 x 30 x 16mm.

CAT# MK-8071 \$16.95 each

VOICE CHANGER KIT

Velleman # MK-171. Make your voice sound like a robot. Add vibrato effect. Use pitch buttons to make your voice higher or lower. Built-in microphone and



power amplifier with volume control - just add a speaker. Speaker / line output. Maximum output power 1.5 W (4 Ohm). Operates on 9Vdc / 300 mA. 9 Volt battery not included.

CAT# MK-171 \$16.80 each

2X5W AMPLIFIER FOR MP3 PLAYER

Features big sound from a small unit. Low distortion. Stereo 3.5mm jack input. Volume adjust complete with attractive knob. Slide on/off switch. Blue



indicator led. 2 x 5Wrms (10% THD @ 4ohm / supply 14V). Sensitivity: 400mVrms for full output. 30Hz-100kHz (-3dB / 8 ohm) frequency response. Requires 6-14 Vdc / 1A max. power supply (not included). Speaker impedance: 4-32 ohm speaker impedance. 66 x 53 x 25mm (2.59 x 2.08 x 0.98") CAT# MK-190 \$19.95 each

12V CAR BATTERY MONITOR

Easy to build in, only 2 wires to connect (connect after ignition). Uses multi color 3mm LED... green: battery OK, Slow pulsing (green): battery OK or charging,



red: battery voltage is low, red blinking: battery is being overcharged. Includes board to wire connector. 30 x 20mm (1.18 x 0.78" board). CAT# MK-189 \$9.95 each

LOW VOLTAGE LIGHT ORGAN KIT

Operates at safe voltage level. Makes lamps flash to the rhythm of the music. Usable for halogen bulbs.



Optically isolated speaker input. Adjustable sensitivity. Can be used in the car, if the lamps are isolated from the chassis.

Specifications

- · input sensitivity: 2W to 60W
- \cdot maximum load: 50W / 12V or 100W / 24V
- power supply: 12V to 24V DC or AC

· dimensions: 1.8 x 3.5"

CAT# MK-114 \$13.95 each

SOLDERLESS KITS FOR KIDS

SOLDERLESS ELECTRONIC DINOSAUR KIT

A unique, inexpensive and simple to build kit. Assemble



the plastic dinosaur, connect the motor/gearbox, on/off switch and battery holder, and you've got an 6" long dinosaur that bobs up and down. All of the components attach to a 5.5" x 5.5" x 1.15" high plastic box. No need for tools or solder. The included components can easily be recycled for use in other motorized projects. Includes instructions. Requires one AA battery (not included). **CAT# KFK-1** \$5.95 each

6-IN-1 EDUCATIONAL SOLAR KIT

Educational solar kit is an excellent building kit for beginners, teaching children the benefits of solar energy while they create a toy that is fun to play with and requires no batteries.



Children use the 21 snap-together plastic parts to build six different motorized working models including an airboat, windmill, puppy, car, and two different planes. No tools required for assembly. Diagonal cutter may be needed to initially separate plastic parts. Kit includes plastic parts, 75mA solar cell, 1.2V electric motor, wires, springs and instruction book. For children 10 years or older. May require adult assistance.

CAT# KFK-2 \$6.00 each

SPACE SHUTTLE KIT

Relatively simple to build, space shuttle model glider. May not set any flying records, but it looks nice and is fun to put together. Made



of light-weight, hard-shell styrofoam. No glue required. Approximately 7" long x 3.5" high. CAT# KFK-4 \$1.00 each

EDUCATIONAL SOLDERLESS

Designed for children, ages 8 and up, this alarm kit includes a simple to understand instruction booklet that teaches the basics of electricity, electrical circuits,

resistors, transistors, piezo transducers, photocells and batteries. The finished alarm is a light sensor, which is meant to be used in a dark drawer. When an "intruder" opens the drawer, exposing the photocell to light, the alarm will sound. The kit includes everything you need for assembly, except the 9-volt battery (which must be purchased separately). No tools required. CAT# KFK-3 \$3.95 each

ORDERING INFORMATION

NO MINIMUM ORDER

\$7.00 Shipping and Handling for most orders (see shipping instructions).

Phone Orders - You may use our TOLL FREE

NUMBER 1-800-826-5432 during our normal business hours, 6:30 AM to 5PM (Pacific Time) Monday - Friday and 9AM to 4 PM Saturday. Local callers may use 818-904-0524.

Mail Orders - and correspondence should be sent to ALL ELECTRONICS CORP. 14928 Oxnard St. Van Nuys, CA 91411-2610

FAX - You may FAX us your order 24 hours a day, 7 days a week. Our FAX number is 1-818-781-2653

Walk-In - Our Van Nuys, California store stocks all of the items in this catalog as well as many which are not of sufficient quantity to be included. Van Nuys store, 818-997-1806.

Internet - E-mail us at allcorp@allcorp.com Shop ON-LINE www.allelectronics.com

PAYMENT METHODS

U.S.A. - Check, money order or acceptable charge card information must accompany your order. We use Instacheck to verify checks. Returned checks are subject to a \$20.00 service charge.

Foreign - Only money orders or cashiers checks in U.S. funds payable thru the U.S. bank clearing systems (drawn on a U.S. bank) can be accepted. Canadian Postal Money Orders in U.S. funds are also acceptable.

Credit Cards - We accept Visa, Mastercard, American Express and Discover card. Please have your credit card information ready when calling. We will require your credit card number, expiration date and your name as it appears on the credit card. Your signature is required on Mail Orders.

Open Accounts - Government or State educational institutes and agencies can submit written formal purchase order forms (verbals are not accepted) for immediate acceptance. All others must submit proper credit information and await approval. Normal credit approval takes up to three weeks and credit terms are extended only to highly rated accounts. Our terms are NET 30 with a \$20.00 minimum. All open account orders are shipped F.O.B. Van Nuys, California (minimum shipping charge is \$7.00)

COD Orders - We do not accept COD orders.

California Customers - Orders delivered within the state of California require us to collect California State Sales Tax unless we have a resale card on file. Please add applicable state sales tax for your county in California (7.5% outside Los Angeles County, 9% in Los Angeles County).

SHIPPING INFORMATION

We will e-mail you when we ship your order if you enter your e-mail address on our order form. Packages under 4 pounds may ship USPS.

Shipping Charges - U.S.A. -

Continental United States (not including Alaska or Hawaii) must include a \$7.00 shipping and handling fee. This will cover shipping via U.P.S. (GROUND) or U.S. mail (Priority Mail) whichever is less (our choice). Shipments requiring special handling for residential delivery, P.O. Box delivery, lift gates or advance notification may incur extra charges. *Alaska, Hawaii, Puerto Rico, and the U.S. Territories* must include full shipping with the order (a \$7.00 minimum shipping charge applies per order). Please check with your local post office regarding charges..

Shipping Charges - INTERNATIONAL

Customers outside the United States are responsible for all shipping and handling charges including but not limited to duties, import or export fees etc. Please check with your local agencies regarding rates. We will ship as per your instructions and will assist you in any way we can. If sufficient shipping is not included, your order will be returned.

Shipping Charges - RUSH ORDERS

We recommend UPS Next Day Air Service or UPS Second Day Service if express shipping is requested. We will also use Federal Express or other express freight companies if requested. We try to ship these orders the day they are placed. We charge the normal U.P.S. Red, U.P.S. Blue, FED EX or specified express carrier fee plus a \$7.00 handling fee for any order where special shipping or handling is requested.

Delivery - Except during busy holiday and rush periods, all orders are processed and shipped within two working days of receipt. If an item is out of stock, but expected within a few days, we will hold the order until the item arrives. If you do not want your order held for out of stock items, please let us know. Delivery via U.P.S. is usually made within 7 working days.

IF YOU HAVE A PROBLEM WITH YOUR ORDER

We try to be as accurate as possible but errors do happen. If you have a problem with your order please write promptly to:

Customer Service Department ALL ELECTRONICS CORP 14928 Oxnard St. Van Nuys, CA 91411-2610

No Return Authorization is necessary. Let us know what the problem is and please return any paperwork you receive with your order. Please include a phone number. We will rectify any problems promptly. Please make all claims within 30 days of receipt of your order.

YOUR SATISFACTION IS GUARANTEED

If you are not happy with a product, please return it to us following the above instructions WITHIN 30 DAYS OF RE-CEIPT in original condition (including paperwork etc.) and you will receive a refund or replacement, whichever you prefer.

PLEASE NOTE!

- We Are Not Responsible For Printing Errors

 Quantities Are Limited

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