
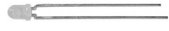









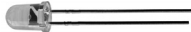
LIGHT EMITTING DIODES (LED)

STANDARD	Color Description		CAT#	100	1000	
T-1 3/4 (5mm)	RED - diffused		LED-1	10 for \$1.00	.07 .04	
	GREEN - diffused	<i>Special Quantity Pricing!</i>	LED-2	10 for \$1.50	.12 .08	
	YELLOW - diffused		LED-3	10 for \$1.50	.12 .08	
	AMBER - diffused		LED-173	10 for \$1.00	.07 .05	
	ULTRA-BRIGHT					
T-1 3/4 (5mm)						
<i>New, lower prices on many of these ultra-bright, wide viewing angle 5mm (T 1-3/4) LEDs. Improved brightness and color consistency.</i>						
	Color Description		CAT#	EACH	100 1000	
	AQUA - water clear in off state	no flange	LED-130	60¢	45¢ 30¢	
	RED - water clear in off-state 5500 mcd		LED-126	45¢	35¢ 20¢	
	RED - Water-clear in off-state. Ammo-pack		LED-151	40¢	30¢ 20¢	
	BLUE - water clear 1500 mcd		LED-74	\$1.75	1.15 95¢	
	BLUE - blue off-state, no flange		LED-117	\$1.00	65¢ 50¢	
	BLUE - Water-clear in off-state. Ammo-pack.		LED-153	50¢	40¢ 30¢	
	GREEN - water clear 3000 mcd		LED-57	\$2.00	1.60 1.20	
	GREEN - water clear in off-state		LED-128	75¢	55¢ 40¢	
	WHITE - water clear, 15° viewing angle		LED-127	\$1.65	1.30 1.00	
	Whitest, Brightest 5mm LED					
	WHITE - water clear, warm-white		LED-156	65¢	50¢ 35¢	
	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¢	
5mm Ultra-Violet LED						
	Emits blue 395nm UV light. Water-clear lens. 3.7 Vdc, 20 mA. 30° beam pattern. Ideal for counterfeit bill detection, detection of fluorescence in minerals, black-light posters.		ULED-2	\$1.40	1.05 .90	
MINIATURE T-1 (3mm)						
	RED - diffused		MLED-1	10 for \$1.00	.08 .07	
	GREEN - diffused		MLED-2	10 for \$1.25	.10 .08	
	YELLOW - diffused		MLED-3	10 for \$1.25	.10 .08	
	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 - point source Ultrabright		LED-59	\$1.00	.65 .50	
	WHITE - water clear Ultrabright		LED-83	95¢	.80 .65	
	GREEN - Ultrabright - water clear		LED-116	\$1.00	.65 .50	
RED MINI-AXIAL LED						
	2mm red lens. Red in off-state.		CAT# LED-157	10 for \$1.00 • 100 for 7¢ each • 500 for 5¢ each		
SUPER-BRIGHT, HIGH-FLUX LEDS						
	Ultra-bright, super-flux Piranha LEDs. 7.62mm square, 4-pin DIP package aids heat dissipation. Designed for high-current, high-flux output.					
	Color	CAT#	Each	10	100	
	RED	LED-912	0.40	0.35	0.25	
	WHITE	LED-918	1.15	1.00	0.80	
	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	
FLASHING LEDS						
	Built-in flashing unit 3 - 5 Vdc operation		Diffused, High Brightness	100	1000	
	T-1 3/4 (5mm) RED		LED-4	2 for .90	.40 .30	
	T-1 3/4 (5mm) GREEN		LED-4G	.50	.45 .40	
	T-1 3/4 (5mm) WHITE		LED-4W	.75	.55 .48	
	T-1 (3mm) WHITE		LED-72W	.75	.55 .48	
BI-COLOR						
	T 1 3/4 (5mm) RED / GREEN diffused		CAT#	1-99	100 1000	
	Two leads. Reverse polarity to change color. Yellow on AC.		LED-6	.50	.45 .35	
	T 1 3/4 (5mm) RED / GREEN diffused		LED-141	.40	.32 .25	
	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-64	.25	.20 .12	
	Led face is 2mm x 5mm.					
	T 1 (3mm) RED/GREEN diffused		LED-67	.35	.29 .25	
	Three leads. Center cathode. Milky-white off-state.					
	T 1 (3mm) Right-angle red/green diffused LED. 3 leads mounted in a 5mm high spacer. Milky-white on off-state.		LED-188	.35	.29 .25	

RGB COLOR-CHANGING LED

5mm (T1-3/4) led cycles through, red - green - blue and combinations of those colors, yielding white, purple and other hues. Changes color every 3 or 4 seconds. Water-clear in off-state. Great for attention-getting displays, costumes or jewelry.

CAT# LED-158 75¢ each
10 for 70¢ each • 100 for 50¢ each



INFRARED EMITTER

T-1 3/4 (5mm). Clear lens

CAT# ILED-8 3 for \$1.00
100 for 20¢ each • 1000 for 14¢ each



SPECIAL – ULTRABRIGHT 5MM RED LED

Ultrabright red led with right-angle pre-formed leds. Slightly oval (4.5 x 5mm) flangeless package. Projects a slightly oval, bright red beam. Clear pink in off-state.

CAT# LED-150 10 for \$2.00 • 100 for 16¢ ea.
500 for 12¢ each • 1000 for 9¢ each



4MM GREEN "TOMBSTONE" LED

4mm x 2mm rectangular LED with rounded face. Green diffused.

CAT# LED-172 10 for \$1.25
100 for 9¢ each • 1000 for 6¢ 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.

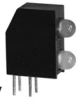
CAT# LED-176 10 for \$1.00
100 for 8¢ each • 1000 for 4.5¢ each



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



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.

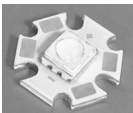
COLOR	CAT#	EACH	100	1000
RED	LED-12R	45¢	35¢	25¢
BLUE	LED-12B	55¢	45¢	35¢
WHITE	LED-12W	50¢	40¢	30¢
GREEN	LED-12G	50¢	40¢	30¢



1 WATT ULTRA-BRIGHT WHITE LED

Cree XLamp™ Extremely high-brightness LED capable of operating at 1 Watt and above. Long-life, solid-state, 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.

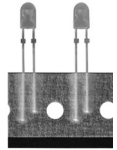
CAT# LED-154 \$6.50 each



HIGH-BRIGHTNESS OVAL LEDs

Blue oval LED high-brightness, 4 x 5.5mm. Aqua-blue diffused lens in off-state. Darker blue when lit. Ammo-pack strip packaging.

CAT# LED-148 2 for \$1.00
100 for 40¢ each



MOUNTING HARDWARE FOR 5MM T-1 3/4 LEDs

Black plastic clips allow snap-in mounting of standard size LEDs.

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



LED STANDOFFS

STANDOFF FOR 5MM LED

Black plastic standoff for 5mm dia., T 1 3/4, LED. For LEDs with or without flange. Standoff is 7mm diameter 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¢ each



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" diameter 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 4.5¢ each



LED TESTER

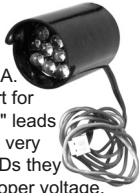
Pocket-size tester. Checks functionality, color, brightness and uniformity of leaded LEDs. Test current ratings from 2-50ma. Socket strip has seven middle positions set at 10 mA allowing comparison of LEDs in those spaces. Requires 9 v battery (not included).

CAT# LT-100 \$8.95 each



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 overvoltage. 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

12-24 VDC 8A DIMMER

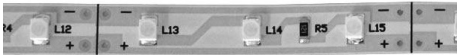
Designed for 12-24 VDC LED strip lights like our CAT#s LS-12-CW, NW, WW. Clearly-marked screw-clamp input/output terminals. Rotary adjustment. 3.5" x 2.35" x 2.25" high (including knob). Mounting holes on 1.6" x 3.1" centers.



CAT# DMR-8 \$19.95 each

12 VDC LED LIGHT STRIPS

WHITE LED STRIPS



Flexible 8mm wide, adhesive backed ribbon with surface-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, above. 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 - Yellow, 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. Color-coded 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

CONTROLLERS FOR RGB LED STRIPS

Allows flashing, sequencing and dimming of tri-color LED strips, CAT# LS-21 and 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

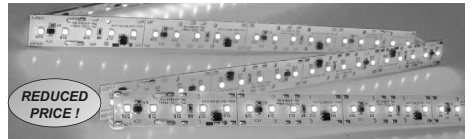
A less expensive, infrared (IR) version of controller CT-21.

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

RED LED STRIPS - 12 VDC



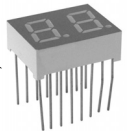
Package of four strips, each is 12" x 0.8", with 20 surface-mount LEDs. Strips are tied to each other with wire jumpers. Strips can be lighted individually. Four strips draw 0.22A @ 12Vdc.

CAT# LS-20R ~~\$10.00~~ \$8.00 per pack

LED DISPLAYS

7 SEGMENT DISPLAYS

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.



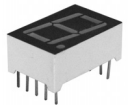
CAT# TDA-482 75¢ each

10 for 65¢ each • 100 for 50¢ each

Red, single-digit display. Common Cathode. Right hand decimal. 0.56" character height. Fits 24-pin DIP socket.

CAT# SDD-678 2 for \$1.00

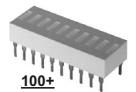
10 for 40¢ each



BARGRAPH DISPLAYS

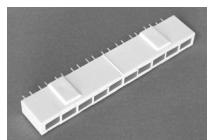
20 pin DIP socket. 10 segments.

Color	CAT#	1-9	10-99	100+
Red	BG-10	1.50	1.25	1.00
Green	BG-10G	1.50	1.25	1.00



10-LED BARGRAPH

Ledtronics #LB2512-10R3 QG. 10 red rectangular LEDs in a white surround. 635nm. 120° viewing angle. Overall size, 65 x 6 x 11mm high. Leads on 0.1" centers.



CAT# BG-10R3 \$1.00 each