**FLASHING LEDs 5mm**  Built-in flashing unit  3-5 Vdc. Diffused. High-brightness.

<table>
<thead>
<tr>
<th>Color</th>
<th>CAT#</th>
<th>Price</th>
<th>100</th>
<th>1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>RED</td>
<td>LED-4</td>
<td>.50</td>
<td>.45</td>
<td>.40</td>
</tr>
<tr>
<td>GREEN</td>
<td>LED-4G</td>
<td>.50</td>
<td>.45</td>
<td>.40</td>
</tr>
<tr>
<td>WHITE</td>
<td>LED-4W</td>
<td>.50</td>
<td>.45</td>
<td>.40</td>
</tr>
<tr>
<td>BLUE</td>
<td>LED-4B</td>
<td>.50</td>
<td>.45</td>
<td>.40</td>
</tr>
<tr>
<td>YELLOW</td>
<td>LED-4Y</td>
<td>.50</td>
<td>.45</td>
<td>.40</td>
</tr>
</tbody>
</table>

**5MM RGB COLOR CHANGING LEDS**

Cycles through red-green-blue and combinations of RGB, yielding purple, white and other hues.

- **Slow Rate** -- fades in and out of each color approximately every 5 seconds. Operates on 3.5Vdc.
- **Rapid Rate** -- changes color every second for ten seconds, then changes color three or four times per second for ten seconds.
- **Fluttering** -- cycles through RGB colors at a very fast rate, giving the impression of a fluttering red / blue light. Milky-white in off-state.

**PRESS-FIT MOUNTING CLIPS FOR LEDS**

- **2 PIECE HOLDER FOR 5MM LEDS**  Black plastic. Mounts in 6.3 mm hole.
- **CLIPLITE HOLDERS FOR 5MM LEDS**  Colored polycarbonate lens diffuses and increases viewing angle. Mounts in 0.25” hole in panels of 0.06” to 0.125” thickness.
- **CLIPS FOR 3MM LEDS**  1 piece holder. Mounts in 4.5mm hole.

**3 WATT LEDS ON HEATSINK**

Ultra-bright, high-power, long-life LEDs mounted on 20mm dia. star-type aluminum disc which serves as a heatsink and provides solder spots to simplify connection.

**3 WATT LEDS**

<table>
<thead>
<tr>
<th>Color</th>
<th>Description</th>
<th>CAT#</th>
<th>Each</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOL WHITE</td>
<td>18000-20000K. 3.2-3.4V, 700mA.</td>
<td>LED-248</td>
<td>1.68</td>
<td>1.51</td>
</tr>
<tr>
<td>WARM WHITE</td>
<td>3500-4200K. 3.2-3.4V, 700mA.</td>
<td>LED-249</td>
<td>2.00</td>
<td>1.75</td>
</tr>
<tr>
<td>AMBER</td>
<td>600-610nm. 1.9-2.3V, 700mA.</td>
<td>LED-253</td>
<td>3.00</td>
<td>2.70</td>
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<tr>
<td>RED</td>
<td>660nm. 1.9-2.3V 700 mA.</td>
<td>LED-250</td>
<td>3.16</td>
<td>2.84</td>
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<tr>
<td>BLUE</td>
<td>460-470nm. 3.2-3.4V, 700mA.</td>
<td>LED-261</td>
<td>2.28</td>
<td>2.05</td>
</tr>
<tr>
<td>IR</td>
<td>940nm. 1.5-1.7V 700 mA.</td>
<td>LED-256</td>
<td>2.76</td>
<td>2.48</td>
</tr>
</tbody>
</table>

**DRIVER FOR 3W LEDS**

The 3 watt LEDs above can be operated on 12 Volts using this driver. Operate on 12 Vac or 12 Vdc.

**LENSES FOR 1W, 3W & 5W LEDS**

20mm lens in a 23mm plastic holder. Works well with our 1W, 3W and 5W LEDs, with & without star pc board ie. LED-248, LED-249, LED-5BL.

**500 piece red, green, blue, yellow and white 5mm LED assortment.** 100 pieces of each color. Clear plastic divided box with locking lid.

**CAT# LED-K2**  $10.00 kit

**300 piece red, green, blue, yellow (amber) and white 3mm and 5mm LED assortment.** All are clear in off-state. 5mm LEDs, 20 pcs each color. 3mm LEDs, 40 pcs each color. Clear plastic divided box with locking lid.

**CAT # LED-K1**  $8.00 kit

**VISIT OUR WEBSITE  - WWW.ALELELECTRONICS.COM**
### ALPHANUMERIC DISPLAYS

**4 DIGIT RED CLOCK DISPLAY, 0.4” DIGITS**

MSCQ4911C

4 character 7-segment LED display module.

Red characters. Semi-colon between middle digits. Decimal points after all digits. Gray face. Common Anode. 0.508" H x 1.582" W x 0.276" D.

Fits our part# ICS-22W.

**CAT# FDA-5**

$1.00 each

85¢ each for 10

75¢ each for 50

**3-DIGIT 7-SEGMENT LED DISPLAY, .28” GREEN**

LT-2621G. 7-segment, 3 character LED display module. Lights green. Common anode. 2.1V 20mA. 0.891” L x 0.394” W x 0.24” H (22.64mm L x 10mm W x 6.1mm H).

0.28” (7.00mm) digits. 16-pin DIP configuration.

**CAT# TDA-26**

85¢ each for 10

70¢ each for 100

**2.3” 5 X 8 RED-GREEN DOT MATRIX**

Lite-On # LTP2558AA-RA

Large. 2.3” matrix height. Red-Orange and Green LEDs. Overall dimensions, 2.40” x 1.5” x 0.33”. Gray face with white dots in off-state. Spec sheet available.

**CAT# LED-2W**

$1.00 ea. • 10 for 80¢ ea.

**COOL-WHITE DUAL LED ASSEMBLY**

Nice bright miniature LED light source for display and lighting applications.

2 high-brightness surface-mount white LEDs mounted on a 0.56” x 0.31” (7 x 14mm) pc board. Built-in circuitry for 8V operation. Two pc pins on 5mm centers.

**CAT# LED-2W**

$1.00 each • 10 for 80¢ each

**LED INDICATOR ASSEMBLIES**

**12 VDC W/ PLASTIC HOUSING**

Threaded bushings with nuts. Solder-lug terminals. 2 sizes, 4 colors (red, green, blue, yellow).

10mm diameter lens. 10mm bushing.

**CAT# IND-10(R,G,B,Y)**

$1.25 each for 10

$1.10 each for 100

12mm diameter lens. 12mm bushing

**CAT# IND-12(R,G,B,Y)**

$1.35 each for 10

$1.15 each for 100

**12 VDC RED LED**

5mm red diffused LED. Press-fit mounting in 0.25” diameter hole. Two 10” pigtail leads.

**CAT# LED-12VR**

$1.15 each for 10

$1.05 each • 100 for 90¢ each

### 12 VDC W/ CHROME HOUSING**

5mm diameter LED in 10mm diameter chrome bezel. 8mm threaded housing with mounting hardware. Extends 34mm below mounting panel. Available in:

- Red (R)
- Blue (B)
- Green (G) and Amber (A)

**CAT# IND-160(R,B,G,A)**

$2.25 each

### 12 VDC LED MODULES & STRIPS**

**WEATHER-RESISTANT 12 VDC LED MODULE, COOL-WHITE**

Miniature lensed weather-resistant LED module provides 160° of cool white light. Narrow foot-print and adhesive backing makes it easy to mount, even on curved surfaces. IP67 rating for outdoor use. Wired together in 20 module strands, with LEDs on 2.36” centers. Can be purchased individually.

**CAT# LED-161CW**

$0.80 module

20 for 70¢ per module

**12 VDC MODULE STRIPS**

Rugged, high-luminoity 3-LED modules suitable for indoor or outdoor, shelf, display or sign lighting. Operates on 12Vdc. Dimmable. Covered lens protects against humidity and sun damage. Double-stick tape on back of each module for attachment to clean, flat surface. Hole for screw mounting. Modules linked on 2-conductor 18AWG zip cord, 161mm (6.5”) center-to-center spacing. Maximum string is 50 modules, 10 meters (32Ft). 0.72W per module, 36W per string.

UL, CE. Can be used w/ dimmer CAT# DMR-8

**Warm White CAT# LS-123WW**

**Cool White CAT# LS-123CW**

**Red CAT# LS-123R**

**Yellow CAT# LS-123Y**

**Green CAT# LS-123G**

**Blue CAT# LS-123B**

**Cool White CAT# LS-123HCW**

High-Power. 1.2W per module. 60W (50 x 1.2W) per string.

**$2.65**

$2.25 per module

10 for $2.00 per module

50 for $1.75 per module

**LOW PROFILE 3-LED MINI MODULE, COOL-WHITE**

Miniature 3-LED module, ideal for indirect lighting, cabinet lighting, sign backlights or outdoor lighting. Provides 120-degrees of cool white light. 12 Vdc. 30mA current. 36W per module. Narrow footprint and adhesive backing makes it easy to mount, even on curved surfaces. IP67 rating for outdoor use. Wired together in 20 unit strands, with modules on 2.72” centers. Can be purchased individually.

**CAT# LPM-3**

85¢ module

20 for 75¢ per module

ORDER TOLL FREE 1-800-826-5432 15
INCANDESCENT LAMPS

Bare leads Insulated leads

3MM GRAIN-OF-WHEAT, T-1
1.5V, 40mA 10" insulated wire leads
CAT# LP-3 $1.25 each • 100 for 98¢ each
1.5V, 75mA 30" insulated wire leads
CAT# LP-41 4 for $1.00 • 100 for 19¢ each
3V, 55mA 10" insulated leads
CAT# LP-4 $1.25 each • 100 for 98¢ each
5V, 60mA 11" insulated leads
CAT# LP-5 $1.25 each • 100 for 98¢ each
5V, 115mA bare wire leads
CAT# LP-715 2 for $1.50 • 100 for 67.5¢ each.
12V, 45Ma 10" insulated leads
CAT# LP-6 $1.25 each • 100 for 98¢ each

3MM, T-1 SPECIAL
14V, 40mA 3mm, bare wire leads
CAT# LP-23 3 for $1.00 • 100 for 20¢ each
500 for 18¢ each • 1000 for 14¢ each

T-1 3/4 5MM DIAMETER LAMPS

T - 1 3/4 BI-PIN LAMP

<table>
<thead>
<tr>
<th>VOLTS</th>
<th>AMPS</th>
<th>CAT#</th>
<th>EACH 100</th>
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<tbody>
<tr>
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<td>LP-7382</td>
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<tr>
<td>28</td>
<td>.040</td>
<td>LP-327</td>
<td>$1.00</td>
</tr>
</tbody>
</table>

14V MINI BAYONET BASE LAMP

#1815 lamp. 14.0 volts, 0.200 amps.
CAT# LP-1815 75¢ each
100 for $67.50

BAYONET BASE LAMP SOCKETS

PC / solder leads.
CAT# LS-17 2 for $1.00

For use with #44, 47, 1815 etc... standard mini-bayonet base lamps.
CAT# LHL-37 2 for $1.00

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.
CAT# FSH-13 $4.50 each
10 for $4.00 each

EL BACKLIGHTS

For backlighting displays, control panels, special effects and model lighting. Flexible, produces practically no heat. Operates on 80-120Vac & will run off of inverter or standard "house" electricity.

2.8" x 2.2"
Salmon color in off-state. Glows white when energized. Solderable pins.
CAT# EL-15 3 for 99¢
100 for 20¢ each

1.2" X 2.6"
Glows green when energized. Ivory off-state. Solderable pin.
CAT# EL-26 3 for 99¢
100 for 20¢ each

FLASHLIGHTS

170 LUMEN WORK LIGHT -- BRIGHT
Nebo 6327 LarryC. EXTREMELY BRIGHT! Equipped with new C-O-B LED technology, it outputs 170 lumens of intense light. The 180° rotating magnetic clip allows for hands-free lighting. The reinforced plastic body design is water and impact-resistant. Top-positioned, ON/OFF button. Powered by 3 AAA batteries (included). 6.375" long. Includes retail box. Comes in red, blue, black or yellow (no choice of color).
CAT# FL-170 $8.99 each

PORTABLE LED LANTERN LIGHT
Battery operated, light-weight portable LED lantern light. Ultra-bright led light is useful for camping, hiking and emergency situations. Features: 360-degree illumination, adjustable light setting. Easily collapses to 5" high, expands to approximately 7.40" high.
3.4" dia. magnetic base conveniently attaches to metal fixtures. Requires 3 AA batteries (not included).
CAT# PLL-1 $6.95 each

1W LED W/ REFLECTOR IN HOUSING

This good looking fixture is a great beginning for a shelf or display lighting project. Bright, white 1 Watt LED enclosed in a rugged black and yellow hard plastic housing with a conical reflector and a clear plastic front lens. Overall dimensions, 2.16" diameter x 3.45" long. Two wire leads. Operates on 3 Vdc @ 300 mA. For higher voltages use a dropping resistor.
CAT# LMP-26 $2.50 each
10 for $2.25 each