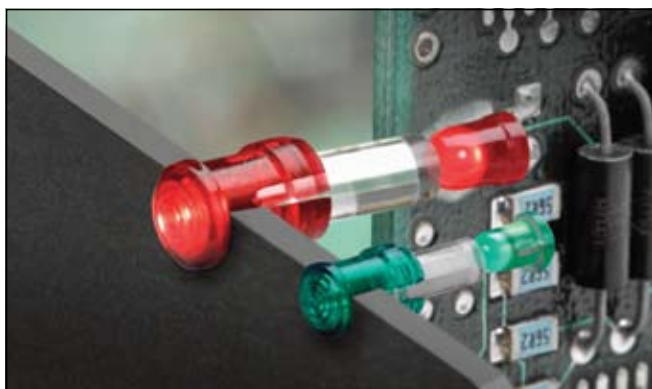# PANEL LENSES AND LITEPIPE® FOR PCB MOUNTED LEDs

U.S. & Foreign Patents Issued and Pending

## VERSATILITY
The LITEPIPE® with CLIPLITE® lens easily provides a method for transmitting the light from PCB mounted LEDs to the front display panel. Both styles of LEDs, surface mount and standard packages, can be displayed in this manner.

## BRIGHTNESS
The LITEPIPE® by itself has a limited angle of view. However, when used with the CLIPLITE® fresnel lens the light is dispersed over the entire lens surface producing 180 degrees of viewing.

## APPLICATION
The LITEPIPE® with CLIPLITE® lens is available for use with both surface mount and standard packaged LEDs in 3mm and 5mm configurations. Because there is no physical connection between the LITEPIPE® and the PCB mounted LED, the circuit board can be installed or removed without disturbing the panel display.
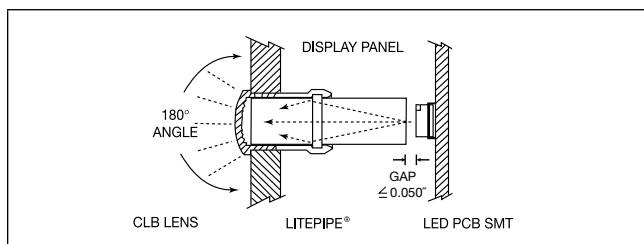
## INSTALLATION
The LITEPIPE® with CLIPLITE® lens is easy to install. Insert the lens through the panel opening and snap the LITEPIPE® into the lens. For added security in harsh environments, a retaining ring is available.
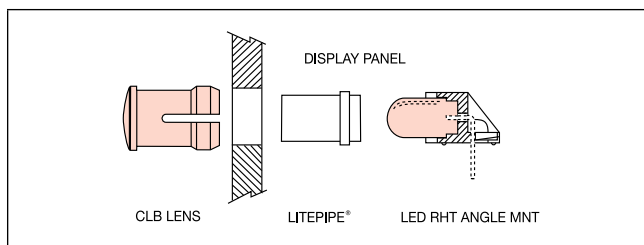
## SPECIFICATIONS

| MATERIAL | LITEPIPE® - Acrylic (Optical grade)<br>CLIPLITE® Lens - Polycarbonate<br>Retaining Ring - Polypropylene<br>(U.L. Listed Materials) |
|---|---|
| DESIGN | LITEPIPE® (3mm and 5mm) with annular ring and locking tab engages into the annular groove of VCC's low profile CLIPLITE® lens. The lens mounts the LITEPIPE® securely to the display panel and provides 180 degrees of viewing angle. |
| MOUNTING | LITEPIPE® 3mm - Mates with VCC's lenses model SMB 200 and SMQ 250. Panel mounting hole .171 (4.3mm) on 1/4″ centers. Panel thickness 1/32″ to 1/8″. LITEPIPE® lengths from .200″ to 1.200″.<br><br>LITEPIPE® 5mm - Mates with VCC's lens model CLB 300 and SQB 400. Panel mounting hole .250 (6.35mm) on 3/8″ centers. Panel thickness 1/32″ to 1/4″. LITEPIPE® lengths from .360″ to 1.360″. For panels less than 3/16″ use SPC 125 spacer. |
| STANDOFF | Use VCC's standoff to adjust the height of a standard LED above the PCB and maintain a maximum .050″ clearance between the LITEPIPE® and LED. See STD Series data sheet on page 28. |

## ORDERING CODE: LENS

### CLB 300 RTP

| MODEL | | COLOR | |
|---|---|---|---|
| SMB 200 | (RND 3mm) Fresnel Lens | RTP | Red Transparent |
| SMQ 250 | (SQ 3mm) Fresnel Lens | ATP | Amber Transparent |
| CLB 300 | (RND 5mm) Fresnel Lens | GTP | Green Transparent |
| SQB 400 | (SQ 5mm) Fresnel Lens | BTP | Blue Transparent |
| SPC 125 | (Spacer for CLB 300 & SQB 400) | YTP | Yellow Transparent |
| RNG 190 | (3mm) | CTP | Clear Transparent |

## ORDERING CODE: LITEPIPE®

### LSV XXX CTP

| MODEL | PRODUCT CODE | | | COLOR |
|---|---|---|---|---|
| LSV (3mm) | LSV – CODE LENGTH (inches) | | | CTP CLEAR |
| LCV (5mm) | 020 (.200″) | 040 (.400″) | 060 (.600″) | |
| | 080 (.800″) | 100 (1.00″) | 120 (1.20″) | |
| | LCV – CODE LENGTH (inches) | | | |
| | 036 (.360″) | 056 (.560″) | 076 (.760″) | |
| | 096 (.960″) | 116 (1.16″) | 136 (1.36″) | |

## LITEPIPE® & SURFACE MOUNT LEDs



## LITEPIPE® & RIGHT ANGLE LEDs



## OUTLINE DRAWING



| (3mm) | | (5mm) | |
|---|---|---|---|
| SMB 200 | LSV Series | CLB 300 | LCV Series |