



LITEPIPE® FOR SURFACE MOUNT AND STANDARD LEDs



U.S. & Foreign Patents Issued and Pending

APPLICATION

VCC's LITEPIPE® provides a method of transmitting the light of a surface mount LED to the display panel. Both vertical and horizontal PCB surface mount LEDs can be displayed in this manner. The LITEPIPE® is also capable of blending multicolor LED light into a single color.

INTENSITY

LITEPIPE® lightpipes have a unique near flush design and are still able to provide up to 160 degrees of viewing angle. This light output is achieved by the use of a concave shaped receiving surface which collects the LEDs light, and fresnel rings on the opposite surface that disperse the light.

VERSATILITY

The LITEPIPE® is available in .020" increments from .200" to 2.0". This wide range of lengths simplifies the PCB positioning in relation to the display panel. Lightpipes are secured directly to the display panel with no mechanical attachment to the PCB. The installation and removal of the circuit board can thus be accomplished without disturbing the display panel.

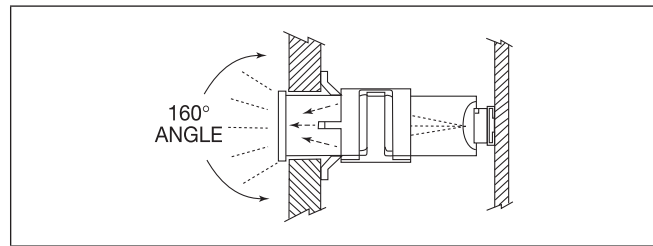
INSTALLATION

LITEPIPE® products are easy to install. Slide the LITEPIPE® through the panel opening and slip the retainer in place. Finish the installation by pressing the retainer up against the display panel.

SPECIFICATIONS

| | |
|-----------------|--|
| MATERIAL | LITEPIPE® - Acrylic, optical grade, (Clear) Grommet - Polyethylene, (black) Spring Clip - Spring Steel (nickel plate) |
| MOUNTING | Panel hole: round .171" Dia. (4.34mm), square .180" x .180" (4.57mm x 4.57mm), rectangular .170" x .250" (4.34mm x 6.35mm). LITEPIPE® from .200" to .500" use grommet retainer (RTN 150). LITEPIPE® from .500" to 2.00" the spring clip (RTN250) is recommended for rigidity. |
| LED | Surface mount, vertical and horizontal LEDs. LITEPIPE® products for blending multicolor LEDs are available. |

LITEPIPE® WITH VERTICAL SURFACE MOUNT LED



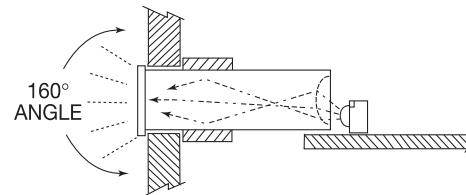
ORDERING CODES

| | | | | |
|-----------------------|------------|------------|------------|--------------|
| MODEL | LPC | XXX | CTP | COLOR |
| LPC (Round) | | | | CTP CLEAR |
| LPS (Square) | | | | |
| LPR (Rectangular) | | | | |
| RTN 150 (GROMMET) | | | | |
| RTN 250 (SPRING CLIP) | | | | |

Equals length in inches
(Min. 0.020 = .200" / Max. 200 = 2.0")

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 020 | 038 | 056 | 074 | 092 | 112 | 135 | 157 | 180 |
| 022 | 040 | 058 | 076 | 094 | 115 | 137 | 160 | 182 |
| 024 | 042 | 060 | 078 | 096 | 117 | 140 | 162 | 185 |
| 026 | 044 | 062 | 080 | 098 | 120 | 142 | 165 | 187 |
| 028 | 046 | 064 | 082 | 100 | 122 | 145 | 167 | 190 |
| 030 | 048 | 066 | 084 | 102 | 125 | 147 | 170 | 192 |
| 032 | 050 | 068 | 086 | 105 | 127 | 150 | 172 | 195 |
| 034 | 052 | 070 | 088 | 107 | 130 | 152 | 175 | 197 |
| 036 | 054 | 072 | 090 | 110 | 132 | 155 | 177 | 200 |

NOTE:
Round: .200" to 2.0" Square &
Rectangular: .300" to 2.0"
(Not all sizes carried in stock.)
Special lengths available
upon request. Minimum order
quantity may apply.



OUTLINE DRAWING

| | | | | |
|--|---|---|--------------------------------------|--|
| <p>LPR</p> <p>Rectangular .190 X .270 (4.83mm X 6.86mm)</p> | <p>LPS</p> <p>Square .200 X .200 (5.08mm X 5.08mm)</p> | <p>LPC</p> <p>Round .190 Dia. (4.83mm)</p> | <p>RTN 150</p> <p>GROMMET</p> | <p>RTN 250</p> <p>SPRING CLIP</p> |
|--|---|---|--------------------------------------|--|

MOUNTING COMPONENTS