



LITEPIPE® FOR SURFACE MOUNT AND STANDARD LEDs



APPLICATION

VCC's LITEPIPE® provides a method of transmitting the light of a surface mount LED to the display panel. Vertical and horizontal PCB and 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.

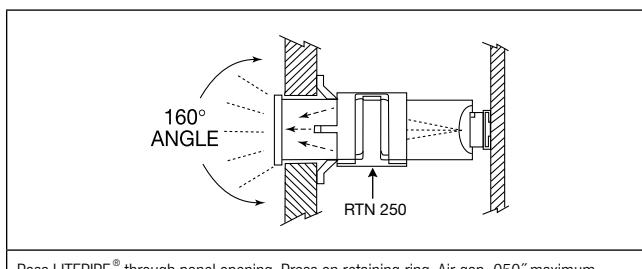
ORDERING CODES

MODEL	LPC	XXX	CTP	COLOR
LPC (Round)				CLEAR
LPS (Square)				
LPR (Rectangular)				
RTN 150 (GROMMET)				
RTN 250 (SPRING CLIP)				
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				
Equals length in inches (Min. 0.20 = .200" / Max. 200 = 2.0")				
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.				

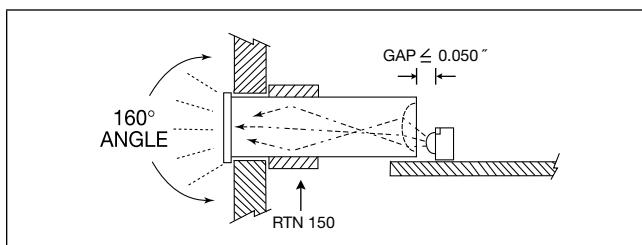
SPECIFICATIONS

MATERIAL	LITEPIPE® - Acrylic, optical grade, (Clear) Grommet - Polyethylene, (black) - J-Von 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.
STANDOFF	Use standoff to adjust height of standard LED above the PCB in order to maintain a maximum .050" clearance between LITEPIPE® and LED. See STD Series data sheet on page 28.

LITEPIPE® WITH VERTICAL SURFACE MOUNT LED



LITEPIPE® WITH HORIZONTAL SURFACE MOUNT LED



OUTLINE DRAWING

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