

VCC LED Litepipes® and Mounting Components



OPTOELECTRONICS

LED Indication

2.5MM "MICRO" LITEPIPE® ASSEMBLIES

Material Specifications:

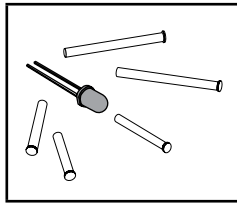
- Litepipe®: Acrylic (optical grade)
- Grommet: Polyethylene (black)

Mounting Specifications:

- Panel hole: Round .102" Dia. (2.59mm)
- Panel thickness: 1/32" to 1/8"
- Use grommet retainer (RTN100)

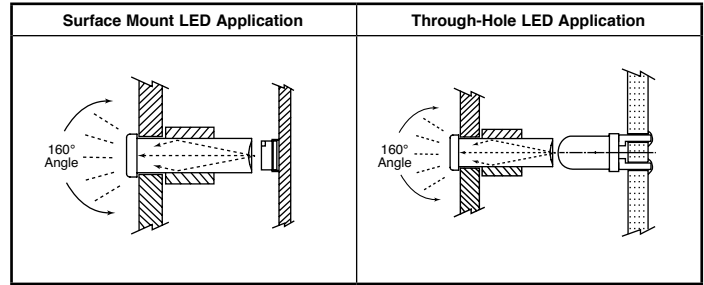
Standoff Recommendation:

- Use standoff to adjust height of standard LED above PCB in order to maintain a maximum .050" clearance between LITEPIPE and LED.



For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | VCC Part No. | Length: in. | Price Each | | | |
|------------------|--------------|-------------|------------|-----|-----|-----|
| | | | 1 | 10 | 100 | 500 |
| 593-LMC020CTP | LMC020CTP | 0.200 | .41 | .35 | .31 | .25 |
| 593-LMC040CTP | LMC040CTP | 0.400 | .41 | .35 | .31 | .25 |
| 593-LMC060CTP | LMC060CTP | 0.600 | .41 | .35 | .31 | .25 |
| 593-LMC080CTP | LMC080CTP | 0.800 | .41 | .35 | .31 | .25 |
| 593-LMC100CTP | LMC100CTP | 1.000 | .41 | .35 | .31 | .25 |
| 593-LMC120CTP | LMC120CTP | 1.200 | .41 | .35 | .31 | .25 |



Grommet

For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | VCC Part No. | Price Each | | | |
|------------------|--------------|------------|------|------|------|
| | | 1 | 10 | 100 | 500 |
| 593-RTN100 | RTN100 | .13 | .111 | .099 | .086 |

LITEPIPES® FOR SURFACE MOUNT LEDS

Material Specifications:

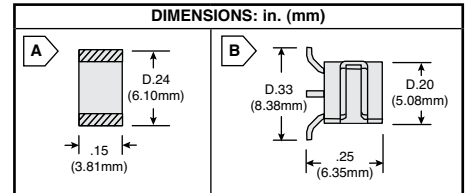
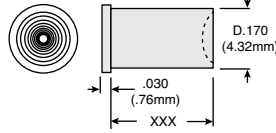
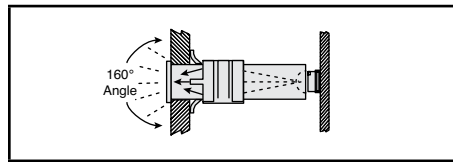
- Litepipe®: Acrylic (optical grade)
- Grommet: Polyethylene (black)
- Spring Clip: Spring steel, Nickel plated

Mounting Specifications:

- Panel hole: Round .171" Dia. (4.32mm)
- Panel thickness: .062" min. (1.57mm)
- Litepipes® from .200" to .500" use grommet retainer
- Litepipes® from .500" to 2.00" the spring clip is recommended for rigidity

Features:

- Surface mount, vertical and horizontal 3mm LEDs. Litepipes for blinding multicolor LEDs are available on special request.



Lightpipes

For quantities greater than listed, call for quote.

| .20" to 1.00" Lengths | | | | | 1.25" to 2.00" Lengths | | | | |
|-----------------------|-----|-----|-----|-----|------------------------|-----|-----|--|--|
| Price Each | | | | | Price Each | | | | |
| 1 | 10 | 100 | 500 | 1 | 10 | 100 | 500 | | |
| .39 | .33 | .30 | .24 | .44 | .38 | .34 | .27 | | |

Additional sizes are available, contact Mouser sales department.

Mounts

For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | Fig. | Description | Price Each | | | |
|------------------|------|-------------|------------|------|------|------|
| | | | 1 | 10 | 100 | 500 |
| 593-RTN150 | A | Grommet | .13 | .111 | .099 | .086 |
| 593-RTN250 | B | Spring Clip | .14 | .12 | .11 | .09 |

593-RTN150 for use with .200 to .500, 593-RTN250 for all other lengths.

| MOUSER STOCK NO. | Length: in. | MOUSER STOCK NO. | Length: in. |
|------------------|-------------|------------------|-------------|
| 593-LPC020 | .20 | 593-LPC030 | .30 |
| 593-LPC022 | .22 | 593-LPC032 | .32 |
| 593-LPC024 | .24 | 593-LPC034 | .34 |
| 593-LPC026 | .26 | 593-LPC036 | .36 |
| 593-LPC028 | .28 | 593-LPC038 | .38 |

| MOUSER STOCK NO. | Length: in. | MOUSER STOCK NO. | Length: in. |
|------------------|-------------|------------------|-------------|
| 593-LPC040 | .40 | 593-LPC050 | .50 |
| 593-LPC042 | .42 | 593-LPC056 | .56 |
| 593-LPC044 | .44 | 593-LPC060 | .60 |
| 593-LPC046 | .46 | 593-LPC066 | .66 |
| 593-LPC048 | .48 | 593-LPC070 | .70 |

| MOUSER STOCK NO. | Length: in. | MOUSER STOCK NO. | Length: in. |
|------------------|-------------|------------------|-------------|
| 593-LPC076 | .76 | 593-LPC100 | 1.00 |
| 593-LPC080 | .80 | 593-LPC125 | 1.25 |
| 593-LPC086 | .86 | 593-LPC150 | 1.50 |
| 593-LPC090 | .90 | 593-LPC175 | 1.75 |
| 593-LPC096 | .96 | 593-LPC200 | 2.00 |

FLEXIBLE LIGHTPIPE FOR SMD AND THRU-HOLE LEDS

Features:

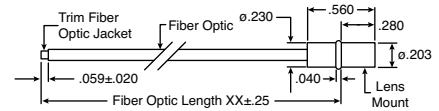
- Immune to electromagnetic interference (EMI)
- Graceful degradation under "extreme" bending conditions
- Diffused light output pattern—no hot spots or narrow field of view
- Works with CLB300, CLF280, CLR301 and SQB400 panel lenses



For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | VCC Part No. | Description | Price Each | | | |
|------------------|--------------|----------------------------------|------------|----|-----|-----|
| | | | 1 | 10 | 100 | 500 |
| 593-SMD22 | SMD 22 | Coupler for SMD LEDs | .36 | | | |
| 593-THR22 | THR 22 | Coupler for Thru-Hole LEDs | .45 | | | |
| 593-THR522 | THR-5-22 | Coupler for 5mm Through-Hole LED | .45 | | | |

| MOUSER STOCK NO. | VCC Part No. | Length (in.) | Price Each | | | |
|------------------|--------------|--------------|------------|------|------|------|
| | | | 1 | 10 | 100 | 500 |
| 593-FLX02 | FLX 02 | 2.0 | 1.78 | 1.64 | 1.49 | 1.35 |
| 593-FLX04 | FLX 04 | 4.0 | 2.32 | 2.13 | 1.95 | 1.76 |
| 593-FLX06 | FLX 06 | 6.0 | 2.85 | 2.62 | 2.40 | 2.17 |
| 593-FLX08 | FLX 08 | 8.0 | 3.38 | 3.11 | 2.84 | 2.57 |
| 593-FLX12 | FLX 12 | 12.0 | 4.44 | 4.09 | 3.73 | 3.38 |



PCB STANDOFFS FOR BI AND TRI-LEAD COMPONENTS

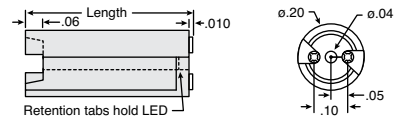
Standoffs are designed for printed circuit board mounting of multi-lead devices i.e. LEDs. They cope with various problems in mounting passive components. They include height control, lateral stability, lead retention, lead shorting, and solder flux removal. Device height control is simplified with mounts ranging in lengths from .12" to 1.0"

- Material: thermoplastic (black) UL 94V-0

| MOUSER STOCK NO. | Length: in. | MOUSER STOCK NO. | Length: in. |
|------------------|-------------|------------------|-------------|
| 593-STD120B | .12 | 593-STD220B | .22 |
| 593-STD140B | .14 | 593-STD240B | .24 |
| 593-STD160B | .16 | 593-STD250B | .25 |
| 593-STD180B | .18 | 593-STD260B | .26 |
| 593-STD200B | .20 | 593-STD280B | .28 |

| .12" to .48" Lengths | | | |
|----------------------|------|-----|------|
| Price Each | | | |
| 1 | 10 | 100 | 500 |
| .17 | .144 | .13 | .101 |

DIMENSIONS: in.



Retention tabs hold LED leads in position prior to final PCB board assembly.

| .50" to 1.0" Lengths | | | |
|----------------------|------|-----|-----|
| Price Each | | | |
| 1 | 10 | 100 | 500 |
| .18 | .159 | .34 | .27 |

| MOUSER STOCK NO. | Length: in. | MOUSER STOCK NO. | Length: in. |
|------------------|-------------|------------------|-------------|
| 593-STD300B | .30 | 593-STD400B | .40 |
| 593-STD320B | .32 | 593-STD420B | .42 |
| 593-STD340B | .34 | 593-STD440B | .44 |
| 593-STD360B | .36 | 593-STD460B | .46 |
| 593-STD380B | .38 | 593-STD480B | .48 |

| MOUSER STOCK NO. | Length: in. | MOUSER STOCK NO. | Length: in. |
|------------------|-------------|------------------|-------------|
| 593-STD500B | .50 | 593-STD750B | .75 |
| 593-STD550B | .55 | 593-STD800B | .80 |
| 593-STD600B | .60 | 593-STD850B | .85 |
| 593-STD650B | .65 | 593-STD900B | .90 |
| 593-STD700B | .70 | 593-STD950B | .95 |
| | | 593-STD1.0B | 1.0 |

PCB MOUNTS FOR BI & TRI-LEAD LEDS

Allows the right angle mounting of 5mm LEDs used as diagnostic and logic indicator lights of PC boards. Permits the right angle mounting of the bi-lead as well as both configurations of the tri-lead LED.

For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | Price Each | | |
|------------------|------------|-----|-----|
| | 1 | 10 | 100 |
| 593-PCH175 | .15 | .13 | .11 |

TWO POSITION PCB MOUNTS

Specifically made for VCC's header post that are used on cable assemblies. This allows a proper lock of the two parts to resist disconnecting under normal use.

For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | Description | Price Each | | | |
|------------------|-------------|------------|-----|-----|-----|
| | | 1 | 10 | 100 | 500 |
| 593-CNXXV02NTP | Vertical | .37 | .32 | .28 | .23 |
| 593-CNXXH02NTP | Horizontal | .42 | .36 | .32 | .26 |

P-C LITE CIRCUIT BOARD SOCKETS FOR T1 (3MM) AND T1-3/4 (5MM) LEDS

For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | No. of Positions | Price Each | | | |
|-------------------------------------|------------------|------------|-----|-----|-----|
| | | 1 | 10 | 100 | 500 |
| Thru-Hole, Horizontal Socket | | | | | |
| 593-PCH330 | 1 | .71 | .65 | .58 | .47 |
| Thru-Hole, Vertical Socket | | | | | |
| 593-PCV220 | 1 | .71 | .65 | .58 | .47 |

