

# VCC LED Litepipes® and Mounting Components



OPTOELECTRONICS

lighting:theway

LED Indication

## 2.5MM "MICRO" LITEPIPE® ASSEMBLIES

### Material Specifications:

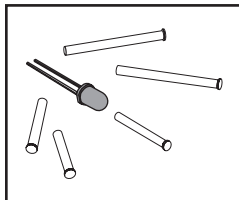
- Litepipe®: Acrylic (optical grade)
- Grommet: Polyethylene (black)

### Mounting Specifications:

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

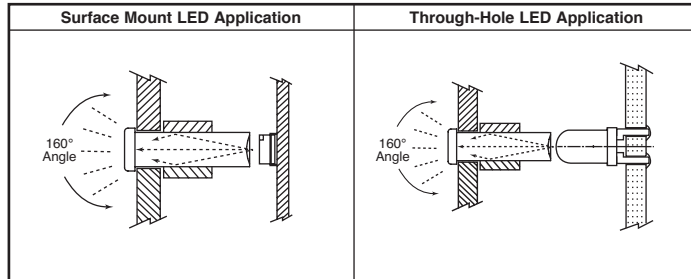
### Standoff Recommendation:

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



For quantities of 1000 and up, 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 of 1000 and up, call for quote.

MOUSER STOCK NO.	VCC Part No.	Price Each			
		1	10	100	500
593-RTN100	RTN100	.11	.09	.08	.07

## LITEPIPES® FOR SURFACE MOUNT LEDs

### Material Specifications:

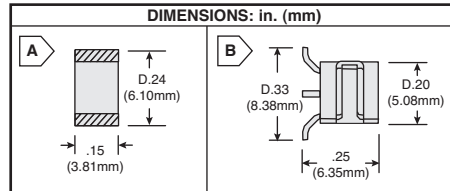
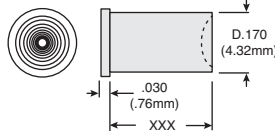
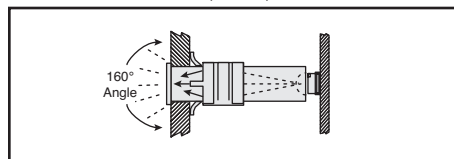
- Litepipe®: Acrylic (optical grade)
- Grommet: Polyethylene (black)
- Spring Clip: Spring steel, Nickel plated

### 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 blending multicolor LEDs are available on special request.



### Lightpipes

For quantities of 1000 and up, 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	1	10	100	500
.39	.33	.30	.24	.44	.38	.34	.27				

Additional sizes are available, contact Mouser sales department.

### Mounts

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Fig.	Description	Price Each			
			1	10	100	500
593-RTN150	A	Grommet	.11	.09	.08	.07
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

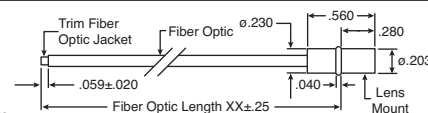
MOUSER STOCK NO.	Length: in.	MOUSER STOCK NO.	Length: in.
593-LPC040	.40	593-LPC050	.50
593-LPC042	.42	593-LPC056	.56
593-LPC044	.44	593-LPC060	.60
593-LPC046	.46	593-LPC066	.66
593-LPC048	.48	593-LPC070	.70

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 & 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 of 1000 and up, call for quote.

MOUSER STOCK NO.	VCC Part No.	Description	Length (in.)	Price Each			
				1	10	100	500
593-FLX02	FLX 02	Coupler for SMD LEDs	2.0	1.78	1.64	1.49	1.35
593-FLX04	FLX 04	Coupler for Thru-Hole LEDs	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

### DIMENSIONS: in.

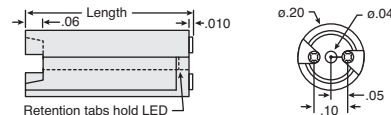


## PCB STANDOFFS FOR BI & TRI-LEAD COMPONENTS

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

### DIMENSIONS: in.



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

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					.50" to 1.0" Lengths						
Price Each					Price Each						
1	10	100	500	1	10	100	500	1	10	100	500
.12	.10	.09	.07	.13	.11	.10	.08				

MOUSER STOCK NO.	Length: in.	MOUSER STOCK NO.	Length: in.
593-STD300B	.30	593-STD500B	.50
593-STD320B	.32	593-STD550B	.55
593-STD340B	.34	593-STD600B	.60
593-STD360B	.36	593-STD650B	.65
593-STD380B	.38	593-STD700B	.70
593-STD400B	.40	593-STD750B	.75
593-STD420B	.42	593-STD800B	.80
593-STD440B	.44	593-STD850B	.85
593-STD460B	.46	593-STD900B	.90
593-STD480B	.48	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 of 1000 and up, 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 of 1000 and up, 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 of 1000 and up, call for quote.

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