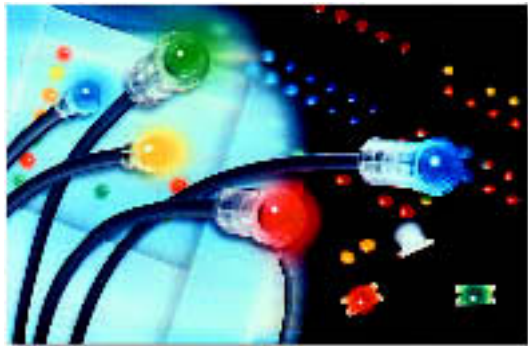


### FLP SERIES



Award winning Flexible Light Pipes were introduced in 1999 to eliminate daughter cards and hard-wired front panel LEDs and to provide designers unmatched flexibility in indicator placement and design. BivarOpto's patented flexible light pipe technology allows for LEDs to be placed anywhere on a PCB or within an enclosure. Installation is by means of a

### Flexible Light Pipes for Through-Hole and Surface Mount

- ◆ Highly Transmissive Optical Grade Materials
- ◆ Secure Press-Fit Panel Mounting
- ◆ Wide, Ultra-Bright Color Selections
- ◆ Through-Hole And Surface Mount Versions
- ◆ Wide Selection Of Lens Shapes And Sizes
- ◆ Custom Lenses Available (Subject To Quotation And Minimum Orders)

simple press-fit application. Retention is vibration and shock resistant. Non-conducting 94V-0 Polycarbonate lenses protect static sensitive components from accidental ESD damage by eliminating potential contact with circuitry. For more information on Bivar's Flexible Light Pipe technology visit us on line at [www.bivar.com](http://www.bivar.com).

#### Mounting Information:

Front Panel: 0.040 [1mm] - 0.125 [3.2mm]  
SMD Adapter Hole Size: 0.094" [2.4mm] diameter  
+ 0.002 (0.05mm), - 0.000 (0.0mm) on  
0.296" [7.5mm] centers ±0.002

#### Material Specifications Plastic Optical Fiber:

Fiber Core: PMMA 94-HB  
Fiber Cladding: Fluorinated Polymer TFE  
Fiber Jacket: 94V-0 PVC Alloy

#### Material Specifications Housings & Adapters:

SMFLP: UL 94V-0 rated, Black 6 Nylon  
Oxygen Index: +28%  
FLP: UL 94V-0 rated, Black 6 Nylon  
Oxygen Index: +28%

#### Application Notes:

Available in lengths from 2.5" [63.5mm] to 328.0' [100m]

After initial captured light loss of approximately 4% for the fiber and 4% for the Fresnel detail there is no significant degradation over practical lengths.

Minimum bend radius of fiber is 10x the diameter or 0.800 [20.3mm]

O603, 0805 and 1206 size SMD LEDs are recommended for use with the SMD adapter with minimum brightness levels of 20 mcd.



#### Ordering Information:

<b>FLP</b>	<b>5</b>	<b>R</b>	<b>6.0</b>	<b>-</b>	<b>SR</b>
Series	Lens	Orientation	Length		Color

#### Series Choices:

FLP (Through-hole)  
SMFLP (Surface Mount Adapter)

#### Lens Choices:

<b>"Blank"</b>	3mm clear lens
<b>5</b>	7mm clear lens
<b>O</b>	oval clear lens
<b>R1</b>	rectangular 2x7 clear lens

#### Orientation: (Through-hole only)

<b>R</b>	Right Angle
<b>V</b>	Vertical

#### Length:

Expressed in inches from 2.5" to 3940.0"  
±0.250 [6.35mm] per 1.0' [304.8mm]

#### Color Options and Suffixes:

Suffix	Color	Peak (nm)	Typ. Vf
SR	Super Red	660nm	1.7
SG	Super Green	568nm	2.2
SY	Super Yellow	585nm	2.1
H	High Efficiency Red	635nm	2.0
SA	Super Amber	610nm	2.2
UBW.6K	Ultra Blue	470nm	3.5
UT	Ultra Turquoise	505nm	3.5
UG	Ultra Green	563nm	2.2