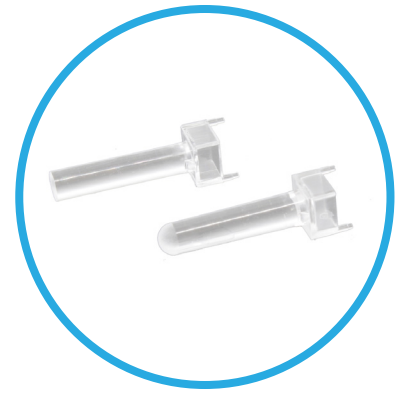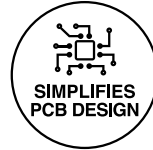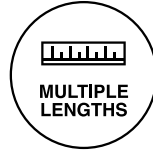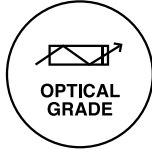# VBL Series
Ø 0.118″ (3mm) PCB Mounted
Light Pipe for Surface Mount LED

VBL Series features vertical press-fit board mount LED light pipes available in a range of different lengths with either a flat or a domed top.

DIAMETER 3MM	FOR SMD LED	OPTICAL GRADE	ESD PROTECTION	MULTIPLE LENGTHS	SIMPLIFIES PCB DESIGN	UL 94 V-0 MATERIAL

Applications

- Audio/Video
- Industrial Robots
- Darkroom Equipment

- Agriculture
- Entertainment
- Medical

- IoT
- Data Center Solutions
- Transportation Power Systems

Key Features

- Rigid board mount light pipe for surface mount LEDs
- 3mm round lens with either a domed or flat face
- The VBL light pipes are mounted onto the PCB using push-fit lugs in close proximity to the LED
- Features a press-fit installation into the PCB board which simplifies installation and enables faster assembly
- Protects LED from ESD
- Optical grade polycarbonate for maximum light transmission
- View viewing angle: Flat 80 degree, Dome 20 degree
- Frosted surface diffuses light and provides uniform brightness and a soft glow
- Operating temp: -40℉~239℉ (-40℃~115℃)
- Standard lengths from 0.20″ to 1.000″
- For custom length contact VCC
- RoHS and REACH Compliant

Ordering Data

Series	Diameter	Shape	Overall Length	Color
VBL	3	D	0200	C

		Shape		
3	3mm	D	Dome	
		F	Flat	

Diameter

3	3mm

Shape

D	Dome
F	Flat

Overall Length

0200	.2″ (5.1mm)
0250	.25″ (6.4mm)
0300	.3″ (7.6mm)
0350	.35″ (8.9mm)
0400	.4″ (10.2mm)
0450	.45″ (11.4mm)
0500	.5″ (12.7mm)
0550	.55″ (13.9mm)
0600	.6″ (15.2mm)
0700	.7″ (17.8mm)
0800	.8″ (20.3mm)
0900	.9″ (22.8mm)
1000	1.0″ (25.4mm)

*Custom lengths available upon request

Color

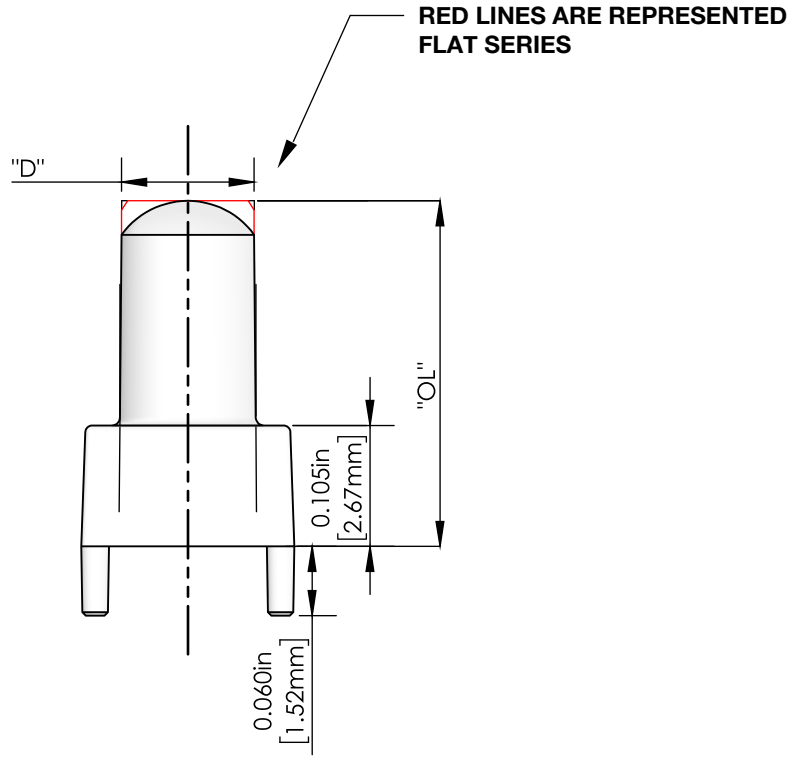| C	Clear

Example:
VBL3D0900C
VBL Series, PCB mount, .9″ (22.8mm) Overall Length, Dome Shape, Clear

Product Dimensions

VBL Series

RED LINES ARE REPRESENTED
FLAT SERIES

"D"

"OL"

0.105in
[2.67mm]

0.060in
[1.52mm]

Overall Length (OL)
.2″ (5.1mm)
.25″ (6.4mm)
.3″ (7.6mm)
.35″ (8.9mm)
.4″ (10.2mm)
.45″ (11.4mm)
.5″ (12.7mm)
.55″ (13.9mm)
.6″ (15.2mm)
.7″ (17.8mm)
.8″ (20.3mm)
.9″ (22.8mm)
1.0″ (25.4mm)

0.081in
[2.07mm]

Mounting Hole Pattern

SQ 0.185in
[4.70mm]

φ0.024in
[0.61mm]

SQ 0.161in
[4.09mm]
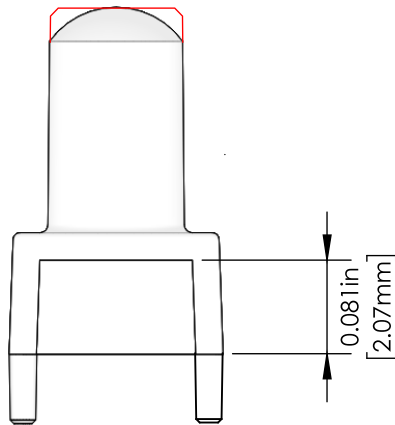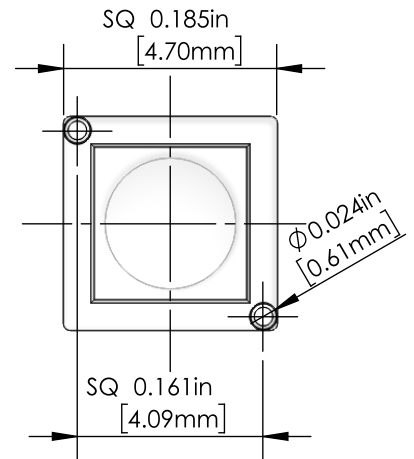
Notes:
1. All dimensions are in inches [millimeters]
2. Tolerance is ± 0.005″ [0.1mm] unless otherwise noted.
3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

Product Specifications

Materials	
Body	Polycarbonate, Clear UL 94-V0

Temperature Specifications	
Operating Temperature	-40˚F~239˚F (-40˚C~115˚C)

Installation Specifications	
Diameter	Ø 0.117″ ± 0.002
Standard Lengths	.2″ to 1.0″ (5.1mm to 25.4mm)

Compliances and Approvals

REACH COMPLIANCE

RoHS COMPLIANT