LFB Series
Ø 0.118” (3mm) Press Fit, Low Profile Diffused Rigid Light Pipe

LFB Series features diffused round 3mm surface provides uniform brightness, a soft glow and a wide viewing angle at 120 degrees.

Applications

• Audio/Video
• Communication
• Darkroom Equipment
• Industrial
• Entertainment
• Medical
• IoT
• Studio Control
• Transportation

Key Features

• For use with surface-mount or through-hole LEDs
• Optical grade polycarbonate for maximum light transmission
• Low profile, flush panel design
• Wide viewing angle at 120 degrees
• Frosted surface diffuses light and provides uniform brightness and a soft glow
• Operating temperature: -40°F~176°F (-40°C~80°C)
• Press fit (front panel mount) with crushable ribs that simplifies installation
• No physical connection between light pipe and LED provides versatility for assembly
• Standard lengths from 0.125” to 1.000”
• RTN112 retainer provides a reliable solution for high-vibration environments (optional)
• For custom length contact VCC
• RoHS and REACH Compliant
### Ordering Data

<table>
<thead>
<tr>
<th>Series</th>
<th>Length</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>LFB</td>
<td>012</td>
<td>CTP</td>
</tr>
<tr>
<td>012</td>
<td>0.125” (3.2mm)</td>
<td>Clear</td>
</tr>
<tr>
<td>025</td>
<td>0.250” (6.4mm)</td>
<td></td>
</tr>
<tr>
<td>035</td>
<td>0.350” (8.9mm)</td>
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</tr>
<tr>
<td>037</td>
<td>0.375” (9.5mm)</td>
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</tr>
<tr>
<td>050</td>
<td>0.500” (12.7mm)</td>
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<tr>
<td>063</td>
<td>0.625” (15.9mm)</td>
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<tr>
<td>075</td>
<td>0.750” (19.0mm)</td>
<td></td>
</tr>
<tr>
<td>100</td>
<td>1.000” (25.4mm)</td>
<td></td>
</tr>
</tbody>
</table>

### Accessories (Order Separately)

**RTN112**
- Retainer for LFB Series 3mm Light Pipe
- Recommended for high vibration applications
- Secure and uniform placement of the lightpipe to the panel
- Field-proven design
Product Dimensions

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~176°F (-40°C~80°C) |

#### Installation Specifications

| Diameter                      | Ø 0.118” ± 0.002 [2.97 ± 0.05 mm] |
| Standard Lengths              | 0.125” to 1.000” (3.2mm to 25.4mm) |

**Recommendation:**

Maximum air gap (clearance) between LED and light pipe for best performance:
- 0.020” [0.5mm] for wide viewing angle LED
- 0.050” [1.3mm] for narrow viewing angle LED

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### Compliances and Approvals