### Exceptional Portfolio - Light Pipes

#### PANEL MOUNT LINEAR LIGHT PIPES

<table>
<thead>
<tr>
<th>Series</th>
<th>Type</th>
<th>Dimensions</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LMC SERIES</strong></td>
<td>Fresnel</td>
<td>2.5mm / 0.10”</td>
<td>160° View Angle, Low Profile</td>
</tr>
<tr>
<td><strong>LFB SERIES</strong></td>
<td>Diffused Lens</td>
<td>3.0mm / 0.12”</td>
<td>Press-fit, 120° View Angle, Low Profile</td>
</tr>
<tr>
<td><strong>LSV SERIES</strong></td>
<td>Fits SMB_200 &amp; SQB_400 Lens</td>
<td>3.0mm / 0.12”</td>
<td>180° View Angle, Low Profile</td>
</tr>
<tr>
<td><strong>LPC SERIES</strong></td>
<td>Fresnel</td>
<td>4.3mm / 0.17”</td>
<td>160° View Angle, Low Profile</td>
</tr>
<tr>
<td><strong>LPCR SERIES</strong></td>
<td>Fits CLB_300 &amp; SQB_400 Lens</td>
<td>4.3mm / 0.17”</td>
<td>Press-fit, 160° View Angle, Low Profile</td>
</tr>
<tr>
<td><strong>LCV SERIES</strong></td>
<td>Diffused Lens</td>
<td>5.0mm / 0.20”</td>
<td>Press-fit, 160° View Angle, Low Profile</td>
</tr>
<tr>
<td><strong>LFC SERIES</strong></td>
<td></td>
<td>5.0mm / 0.20”</td>
<td>Diffused Lens, 120° View Angle, Low Profile</td>
</tr>
</tbody>
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#### PANEL MOUNT MOISTURE SEALED LINEAR LIGHT PIPES

<table>
<thead>
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<th>Series</th>
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<tbody>
<tr>
<td><strong>LSS SERIES</strong></td>
<td>180° View Angle</td>
<td>3.0mm / 0.12”</td>
<td>w/Retainer Ring, Low Profile, Sealed Light Pipe</td>
</tr>
<tr>
<td><strong>LMS SERIES</strong></td>
<td>180° View Angle</td>
<td>5.0mm / 0.20”</td>
<td>w/Retainer Ring, Low Profile, Sealed Light Pipe</td>
</tr>
<tr>
<td><strong>LCS SERIES</strong></td>
<td>180° View Angle</td>
<td>8.0mm / 0.31”</td>
<td>w/Lockwasher &amp; Retainer Nut, Threaded Moisture Sealed Light Pipe</td>
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</tbody>
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#### BOARD MOUNT LINEAR LIGHT PIPES

<table>
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<tr>
<th>Series</th>
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<th>Dimensions</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>VBL SERIES</strong></td>
<td>Press-fit Vertical</td>
<td>3.0mm / 0.119”</td>
<td>Board Mount Light Pipe, Flat or Domed Top</td>
</tr>
<tr>
<td><strong>7511 SERIES</strong></td>
<td>Rigid Linear Light Pipe</td>
<td>3.81mm / 0.150”</td>
<td>Single Position, Clear UL 94-V0</td>
</tr>
</tbody>
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#### BOARD MOUNT RIGHT ANGLE LIGHT PIPES

<table>
<thead>
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<th>Series</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>LPCM SERIES</strong></td>
<td>Fiber Optic</td>
<td>4.40mm / 0.173”</td>
<td>Board Mount, No-bleed Light Pipe, Low Profile, Fits SMD_4 Mount</td>
</tr>
</tbody>
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#### PANEL MOUNT FLEXIBLE LIGHT PIPES

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<th>Series</th>
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<tr>
<td><strong>FLX3 SERIES</strong></td>
<td>Fiber Optic</td>
<td>3.0mm / 0.12”</td>
<td>Fits SMB_200, SML_190 &amp; SQB_400 Lens</td>
</tr>
<tr>
<td><strong>FLX SERIES</strong></td>
<td>Fiber Optic</td>
<td>5.0mm / 0.20”</td>
<td>Fits CLF_280, CLB_300, CLR_301 &amp; SQB_400 Lens</td>
</tr>
<tr>
<td><strong>7512F SERIES</strong></td>
<td>Fiber Optic</td>
<td>4.8mm / 0.19”</td>
<td>Low Profile, Wide View Angle</td>
</tr>
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#### MOISTURE-SEALED FLEXIBLE LIGHT PIPES

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<tr>
<td><strong>FLX_322 SERIES</strong></td>
<td>Fiber Optic</td>
<td>7.1mm / 0.28”</td>
<td>w/Fresnel Lens, Seal &amp; Retainer Ring</td>
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<tr>
<td><strong>FLX_44X SERIES</strong></td>
<td>Fiber Optic</td>
<td>7.9mm / 0.31”</td>
<td>w/Lens, Threaded Seal, Lockwasher &amp; Retainer Ring</td>
</tr>
<tr>
<td><strong>FLXR SERIES</strong></td>
<td>Fiber Optic</td>
<td>10.1mm / 0.40”</td>
<td>NEMA4 Threaded w/Seal, Lockwasher &amp; Retainer Ring</td>
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**Exceptions Portfolio - Light Pipes**

**PANEL MOUNT LINEAR LIGHT PIPES**

**LMC SERIES**
- **2.5mm / 0.10”**
- Fresnel
- 160° View Angle
- Low Profile

**LFB SERIES**
- **3.0mm / 0.12”**
- Diffused Lens
- Press-fit
- 120° View Angle
- Low Profile

**LSV SERIES**
- **3.0mm / 0.12”**
- Fits SMB_200 & SQB_400 Lens
- 180° View Angle
- Low Profile

**LPC SERIES**
- **4.3mm / 0.17”**
- Fresnel
- Press-fit
- 160° View Angle
- Low Profile

**LPCR SERIES**
- **4.3mm / 0.17”**
- Fits CLB_300 & SQB_400 Lens
- 180° View Angle
- Low Profile

**LCV SERIES**
- **5.0mm / 0.20”**
- Diffused Lens
- Press-fit
- 120° View Angle
- Low Profile

**LFC SERIES**
- **5.0mm / 0.20”**
- Diffused Lens
- Press-fit
- 120° View Angle
- Low Profile

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**PANEL MOUNT MOISTURE SEALED LINEAR LIGHT PIPES**

**LSS SERIES**
- **3.0mm / 0.12”**
- 180° View Angle
- w/Retainer Ring
- Low Profile
- Sealed Light Pipe

**LMS SERIES**
- **5.0mm / 0.20”**
- 180° View Angle
- w/Retainer Ring
- Low Profile
- Sealed Light Pipe

**LCS SERIES**
- **8.0mm / 0.31”**
- 180° View Angle
- w/Lockwasher & Retainer Nut
- Threaded Moisture Sealed Light Pipe

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**BOARD MOUNT LINEAR LIGHT PIPES**

**VBL SERIES**
- **3.0mm / 0.119”**
- Press-fit Vertical
- Board Mount Light Pipe
- Flat or Domed Top

**7511 SERIES**
- **3.81mm / 0.150”**
- Board Mount
- Single Position
- Rigid Linear Light Pipe
- Clear UL 94-V0

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**PANEL MOUNT FLEXIBLE LIGHT PIPES**

**FLX3 SERIES**
- **3.0mm / 0.12”**
- Fiber Optic
- Fits SMB_200, SML_190 & SQB_400 Lens

**FLX SERIES**
- **5.0mm / 0.20”**
- Fiber Optic
- Fits CLF_280, CLB_300, CLR_301 & SQB_400 Lens

**7512F SERIES**
- **4.8mm / 0.19”**
- Fiber Optic
- Low Profile
- Wide View Angle

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**MOISTURE-SEALED FLEXIBLE LIGHT PIPES**

**FLX_322 SERIES**
- **7.1mm / 0.28”**
- Fiber Optic
- w/Fresnel Lens, Seal & Retainer Ring

**FLX_44X SERIES**
- **7.9mm / 0.31”**
- Fiber Optic
- w/Lens, Threaded Seal, Lockwasher & Retainer Ring

**FLXR SERIES**
- **10.1mm / 0.40”**
- Fiber Optic
- NEMA4 Threaded w/Seal, Lockwasher & Retainer Ring
Panel Mount Linear Light Pipes

**LMC SERIES**

2.5mm Rigid Light Pipe
- Low profile fresnel rigid light pipe
- Increases the apparent brightness and viewing angle of the LED
- Uniform brightness
- Transmits the light from the source to the lens
- Light pipe is secured to the display panel
- 160° viewing angle
- Supports surface mount, 3mm, 5mm standard LED packages
- Fits 0.102” (2.5mm) panel mounting hole
- Enables flush panel design opportunities
- Available lengths from 0.100” to 1.200”
- Clear optical acrylic UL94-HB
- RoHS Compliant

**LFB SERIES**

3mm Press Fit Light Pipe
- Diffused rigid light pipe
- Low profile press fit diffused light pipe
- Crushable ribs simplify installation
- Uniform brightness
- Frosted surface provides a soft glow
- 120° viewing angle
- Works with through hole and SMD LEDs
- Fits 0.116” (3mm) panel mounting hole
- Enables flush panel design opportunities
- Available lengths from 0.125” to 1.000”
- Clear polycarbonate UL 94-V0
- Vibration resistant with optional retainer ring
- RoHS Compliant

**LSV SERIES**

3mm Rigid Light Pipe
- Light pipe mates with different VCC lens model
- Light pipe snaps into lens locking tabs
- Lens mounts light pipe securely to the display panel
- 180° viewing angle
- Fits 0.171” (4.3mm) panel mounting hole
- Available lengths from 0.200” to 1.200”
- Clear optical acrylic UL94-HB
- Optional color lens and shape available
- Vibration resistant with optional retainer ring
- RoHS Compliant

**LPC SERIES**

4.3mm Low Profile Fresnel Light Pipe
- Low profile fresnel light pipe
- Supports vertical and horizontal PCB LEDs
- Unique near flush design
- Uniform brightness
- Rigid light pipe
- Light pipe is secured to the display panel
- Works with through hole and SMD LEDs
- Fits 0.171” (4.3mm) panel mounting hole
- 160° viewing angle
- Available lengths from 0.110” to 2.000”
- Capable of blending multicolor LED light into a single color
- Clear optical acrylic UL94-HB
- Vibration resistant with retainer ring
- RoHS Compliant
Panel Mount Linear Light Pipes

**LPCR SERIES**

4.3mm Low Profile Press Fit Fresnel Light Pipe
- Crushable ribs simplify installation
- Light pipe is secured to the display panel
- Unique near flush design
- Rigid light pipe
- 160° viewing angle
- Fits 0.171” (4.3mm) panel mounting hole
- Available lengths from 0.300” to 1.000”
- Clear polycarbonate UL 94-V0
- Vibration resistant with optional retainer ring
- RoHS Compliant

**LCV SERIES**

5mm Rigid Light Pipe
- Light pipe mates with different VCC lens model
- Lens mounts light pipe securely to the display panel
- Lightpipe snaps into lens locking tabs
- 180° viewing angle
- Fits 0.250” (6.35 mm) panel mounting hole
- Available lengths from 0.360” to 1.360”
- Clear optical acrylic UL94-HB
- 180° viewing angle
- Optional color lens and shape available
- Vibration resistant with optional retainer ring
- RoHS compliant

**LFC SERIES**

5mm Rigid Light Pipe
- Diffused rigid light pipe
- For use with surface-mount or through-hole LEDs
- Optical grade polycarbonate for maximum light transmission
- Low profile, flush panel design
- 120° viewing angle
- Available lengths from 0.125” to 1.000”
- No physical connection between light pipe and LED provides versatility for assembly
- Custom lengths available
- RoHS compliant

Board Mount Linear Light Pipes

**VBL SERIES**

Press-Fit Board Mount Light Pipe
- Ø 0.118” (3.0mm) light pipe
- Lengths from 0.20” to 1.000”
- 3mm round lens with either a domed or flat face
- For use with surface mount LEDs
- Clear polycarbonate UL 94-V0
- Viewing angle: Flat 90°, Dome 20°
- Protects LED from ESD
- RoHS Compliant

**LPCM SERIES**

No-Bleed Board Mount Light Pipe
- Low profile, panel flush design
- Mates to any PCB using SMD_4 mount
- For use with surface mount LEDs
- Fits 0.173” (4.4mm) panel mounting hole
- Enables flush panel design opportunities
- Available lengths from 0.300” to 1.000”
- Clear optical grade Acrylic 94-HB
- RoHS Compliant

**7511 SERIES**

Board Mount Rigid Light Pipe
- Board mount
- Single position
- Fits 0.150” panel mounting hole
- Light pipe length: 0.400”
- Light pipe angle: Linear
- For use with surface mount LEDs
- Clear polycarbonate UL 94-V0
- RoHS Compliant
Panel Mount Moisture Sealed Linear Light Pipes

**LSS SERIES**

**3mm Light Pipe with Moisture Sealed Lens**
- Transmit the light from the PCB mounted LEDs to the front display panel
- Low profile, wide viewing angle, and moisture sealed lens
- Increases the apparent brightness and viewing angle of the LED
- 180° viewing angle
- Supports surface mount, 3mm and 5mm standard LED packages
- Fits 0.171” (4.34mm) panel mounting hole
- Retainer ring are supplied for easy assembly
- Available lengths from 0.330” to 1.33”
- Different lens colors available
- Light pipe: Clear optical acrylic UL94-HB
- Lens: Polycarbonate UL 94-V2
- Seal: EPDM
- Meets NEMA 4, IP56 standards
- RoHS Compliant

**LMS SERIES**

**5mm Light Pipe with Moisture Sealed Lens**
- Transmits the light from the PCB mounted LEDs to the front display panel
- Low profile, wide viewing angle, and moisture sealed lens
- Increases the apparent brightness and viewing angle of the LED
- 180° viewing angle
- Supports surface mount, 3mm and 5mm standard LED packages
- Fits 0.281” (7.14mm) panel mounting hole
- Retainer ring are supplied for easy assembly
- Available lengths from 0.330” to 1.33”
- Different lens colors available
- Light pipe: Clear optical acrylic UL94-HB
- Lens: Polycarbonate UL 94-V2
- Seal: EPDM
- Meets NEMA 4, IP56 standards
- RoHS Compliant

**LCS SERIES**

**8mm Light Pipe with Moisture Sealed Lens**
- Increases the apparent brightness and viewing angle of the LED
- Transmits the light from the PCB mounted LEDs to the front display panel
- Light pipe fits into lens
- Lens mounts securely to the display panel with lockwasher
- 180° viewing angle
- Supports surface mount, 3mm and 5mm standard LED packages
- Fits 5/16” (8mm) panel mounting hole
- Available lengths from 0.320” to 1.77”
- Different lens colors available
- No physical connection between the light pipe and the LED
- Light pipe: Clear optical acrylic UL94-HB
- Lens: Polycarbonate UL 94-V2
- Seal: EPDM
- Meets NEMA 6P / IP67 standards
- RoHS Compliant

High-intensity LEDs and Light Pipes for Audio Products

Light Pipe for Intelligent Control Units

Smart Parking Meter with Flexible Light Pipe
Panel Mount Flexible Light Pipes

**FLX SERIES**

3mm Flexible Light Pipe
- Flexible panel board mount light pipe
- Fiber optic with optical grade acrylic lens
- Works with through hole and SMD LEDs
- Fits 0.171" (4.34mm) panel mounting hole
- Variations of board mounting available
- Optional color lens and shape available
- Available lengths from 2.0" to 12.0"
- Vibration resistant with optional retainer ring
- RoHS compliant

5mm Flexible Light Pipe
- Flexible panel board mount light pipe
- Fiber optic with optical grade acrylic lens
- Works with through hole and SMD LEDs
- Fits 0.250" (6.35 mm) panel mounting hole
- Variations of board mounting available
- Optional color lens and shape available
- Available lengths from 2.0" to 12.0"
- Vibration resistant with optional retainer ring
- RoHS compliant

**FLX 3 SERIES**

- 3mm Flexible Light Pipe
- Flexible panel board mount light pipe
- Fiber optic with optical grade acrylic lens
- Works with through hole and SMD LEDs
- Fits 0.171" (4.34mm) panel mounting hole
- Variations of board mounting available
- Optional color lens and shape available
- Available lengths from 2.0" to 12.0"
- Vibration resistant with optional retainer ring
- RoHS compliant

**FLX 5 SERIES**

- 5mm Flexible Light Pipe
- Flexible panel board mount light pipe
- Fiber optic with optical grade acrylic lens
- Works with through hole and SMD LEDs
- Fits 0.250" (6.35 mm) panel mounting hole
- Variations of board mounting available
- Optional color lens and shape available
- Available lengths from 2.0" to 12.0"
- Vibration resistant with optional retainer ring
- RoHS compliant

**7512F SERIES**

Flexible Board Mount Light Pipe
- Press fit
- Flexible optical light pipe
- Fits CMDA19 LED Series
- Fits 0.187" (4.75mm) panel mounting hole
- ESD protection from circuitry
- Wide viewing angle
- IP65 rated
- Water clear optics for variety of LED colors
- Light pipe: Clear polycarbonate UL 94-V0
- RoHS compliant

**Moisture Sealed Flexible Light Pipes**

**FLX_322 SERIES**

- Moisture Seal Flexible Light Pipe
  - Transmitting light from a PCB mounted LED to front panel
  - Offers wide design capabilities
  - Fiber optic with optical grade acrylic lens
  - Works with through hole and SMD LEDs
  - Fits 9/32" (7.12mm) panel mounting hole
  - ESD protection from circuitry
  - Available length 4.0"
  - Clear lens color
  - Meets NEMA 4, IP56 standards
  - RoHS compliant

**FLX_44X SERIES**

- Threaded Moisture Seal Flexible Light Pipe
  - Transmitting light from a PCB mounted LED to front panel
  - Offers wide design capabilities
  - Fiber optic with optical grade acrylic lens
  - Works with through hole and SMD LEDs
  - Fits 5/16" (7.97mm) panel mounting hole
  - ESD protection device
  - Available lengths from 4.0" to 12.0"
  - Different Fresnel lens colors available
  - RoHS compliant

**FLXR SERIES**

- Threaded Moisture Seal Flexible Light Pipe
  - Designed for harsh and outdoor environments
  - Ruggedized flexible light pipe
  - Anti-vandal low profile light pipe
  - Resistant to shock and vibration
  - Wide viewing angle
  - Fits 0.400" (10.1mm) panel mounting hole
  - Clear or black anodized finish
  - ESD protection
  - RoHS compliant

8mm Light Pipe with Moisture Sealed Lens
- Increases the apparent brightness and viewing angle of the LED
- Transmits the light from the PCB mounted LEDs to the front display panel
- Light pipe fits into lens
- Lens mounts securely to the display panel with lockwasher
- 180° viewing angle
- Supports surface mount, 3mm and 5mm standard LED packages
- Fits 5/16" (8mm) panel mounting hole
- Available lengths from 0.320" to 1.77"
- Different lens colors available
- No physical connection between the light pipe and the LED
- Light pipe: Clear optical acrylic UL94-HB
- Lens: Polycarbonate UL 94-V2
- Seal: EPDM
- Meets NEMA 6P / IP67 standards
- RoHS Compliant
# Board Mount Right Angle Light Pipes

<table>
<thead>
<tr>
<th>Model</th>
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<tbody>
<tr>
<td>7511A85</td>
<td></td>
</tr>
<tr>
<td>7513D2-L</td>
<td></td>
</tr>
<tr>
<td>7512D2</td>
<td></td>
</tr>
<tr>
<td>7511A62</td>
<td></td>
</tr>
</tbody>
</table>

- **7511B11**

**Board Mount Right Angle Light Pipes**
- Wide range of 1 Position, 2 Position, and 3 Position
- Rigid light pipe
- Light pipe is secured to the board
- Maximum light transmission
- Transmit light from PCB mounted LED to the front display panel

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**Have a Project That Needs a Light Pipe?**

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