



Our Focus is in Plastics

Polymer Optics Ltd.

6 Kiln Ride, Wokingham,
Berks., RG40 3JL, England
Tel/Fax: +44 (0) 1189 893341
www.polymer-optics.co.uk

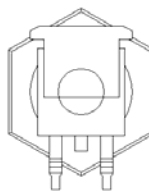
Narrow Angle Collimator for Avago Moonstone LEDs - Part No. 170



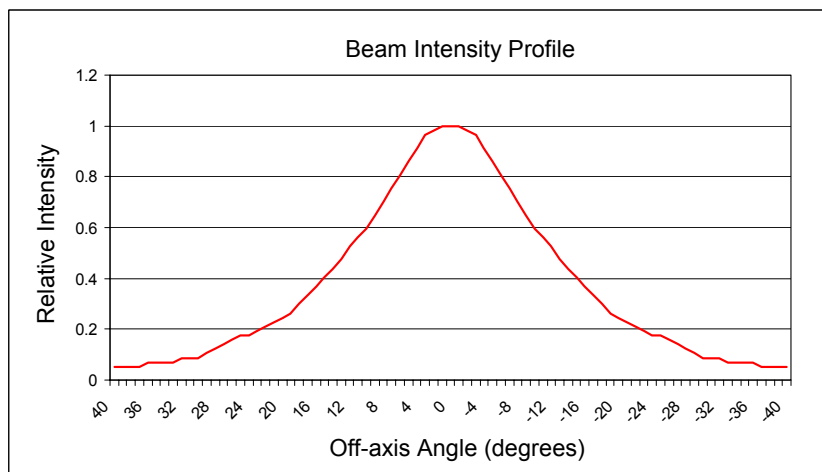
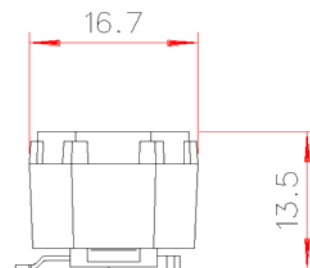
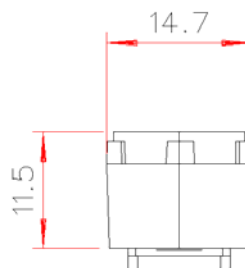
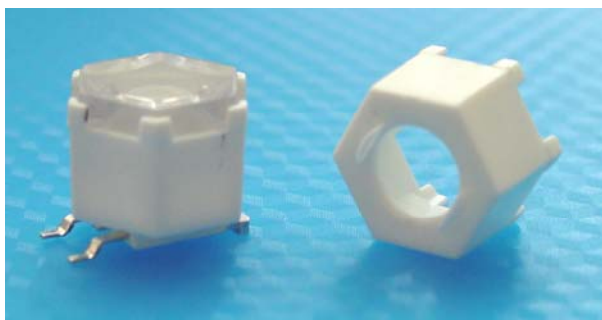
- Designed for Avago Moonstone High Power LED's
- High light collection efficiency of >85%
- Precision moulded in optical grade Polycarbonate for thermal stability and system durability
- Part of the Polymer Optics "Modular LED Optics"® range

Supplied with Holder (Part No. 182) to mount optics directly on to the Moonstone LED.

Holder locates on LED package to ensure correct optical alignment



Typical dimensional tolerances
to +/-0.2mm



The 170 Narrow Angle Collimator can be used with both Standard and Diffuse Moonstone LEDs.

With Standard Moonstone LEDs the 170 optic may highlight some colour separation and imaging effects of the LED die, so is best used with the Diffuse package LED type.

However, the 186 Diffuse Narrow Angle Collimator optic gives an improved performance with all Moonstone LED types.

Due to continuous product improvement, POL reserve the right to change specifications without notice.

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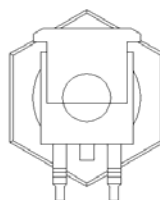
Wide Angle Collimator for Avago Moonstone LEDs - Part No. 171



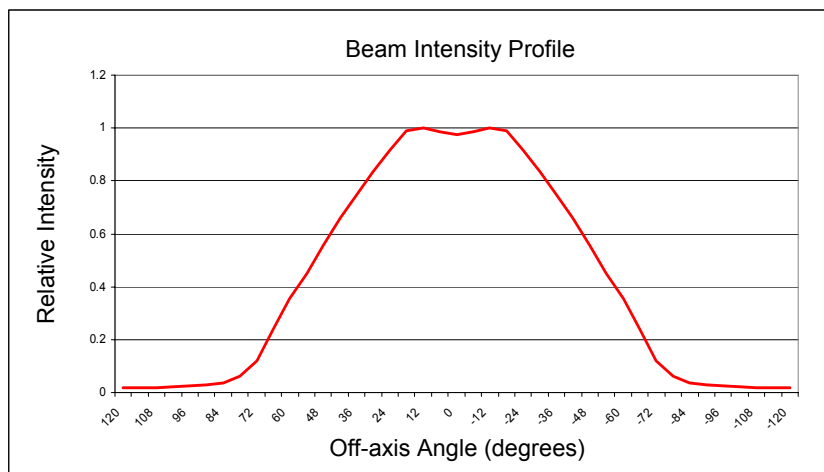
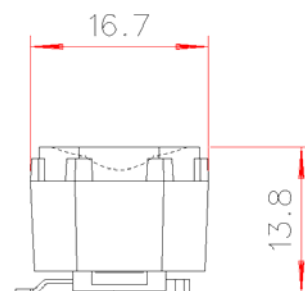
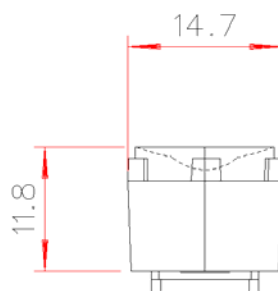
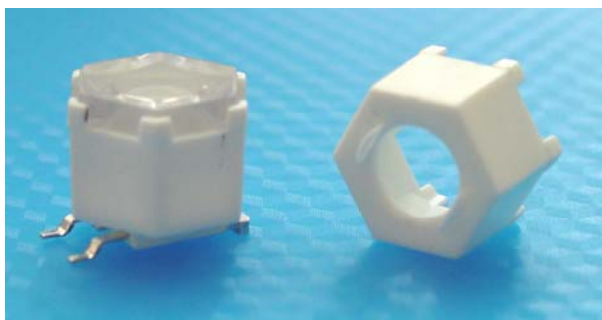
- Designed for Avago Moonstone High Power LED's
- High light collection efficiency of >85%
- Precision moulded in optical grade Polycarbonate for thermal stability and system durability
- Part of the Polymer Optics "Modular LED Optics"® range

Supplied with Holder (Part No. 182) to mount optics directly on to the Moonstone LED.

Holder locates on LED package to ensure correct optical alignment



Typical dimensional tolerances
to $\pm 0.2\text{mm}$



Due to continuous product improvement, POL reserve the right to change specifications without notice.

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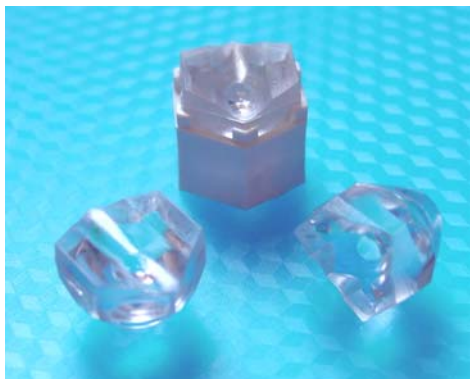


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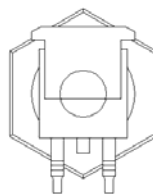
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Elliptical Beam Lens for Avago Moonstone - Part No. 172



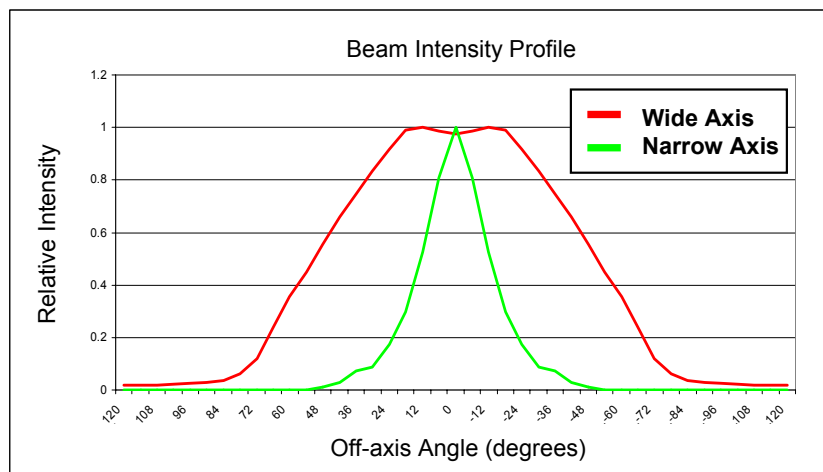
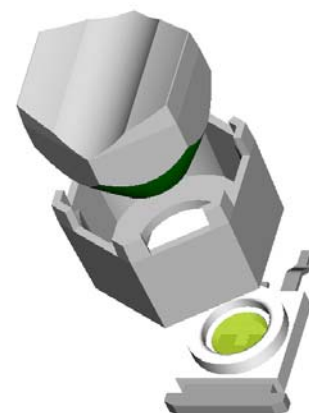
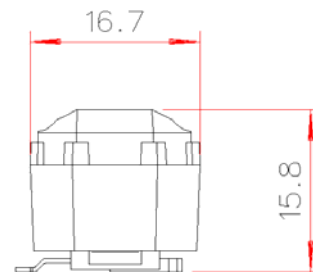
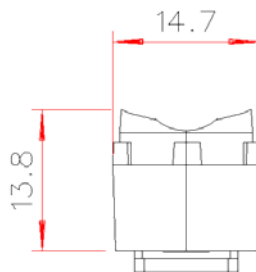
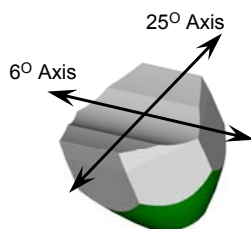
- Designed for Avago Moonstone High Power LED's
- High light collection efficiency of >85%
- Precision moulded in optical grade Polycarbonate for thermal stability and system durability
- Part of the Polymer Optics "Modular LED Optics"® range



Typical dimensional tolerances to
+/-0.2mm

Supplied with Holder (Part No. 182) to mount optics directly on to the Moonstone LED.

Holder locates on LED package to ensure correct optical alignment



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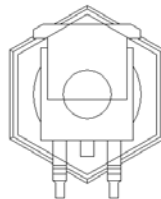
Single Cell Concentrator Lens for Avago Moonstone LEDs - Part No. 173



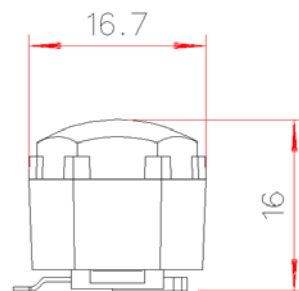
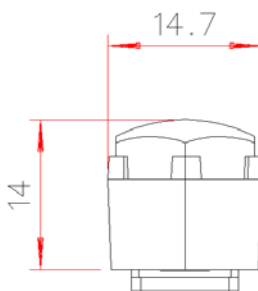
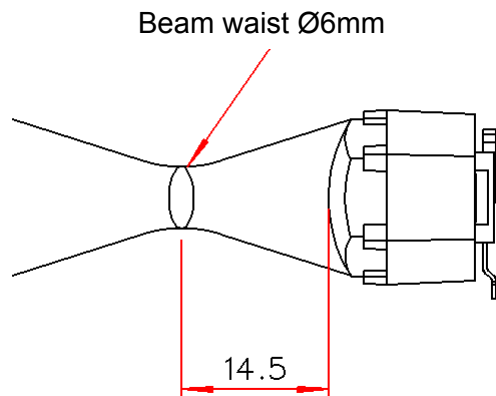
- Designed for Avago Moonstone High Power LED's
- High light collection efficiency of >85%
- Precision moulded in optical grade Polycarbonate for thermal stability and system durability
- Part of the Polymer Optics "Modular LED Optics"® range

Supplied with Holder (Part No. 182) to mount optics directly on to the Moonstone LED.

Holder locates on LED package to ensure correct optical alignment



Typical dimensional tolerances
to +/-0.2mm



Typical Applications:

- Beam insertion into optical fibre bundles
- Beam insertion into edge of lightguides
- High intensity illumination of small objects for inspection and microscopy





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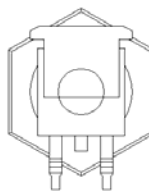
Diffuse Narrow Angle Collimator for Avago Moonstone LEDs - Part No. 186



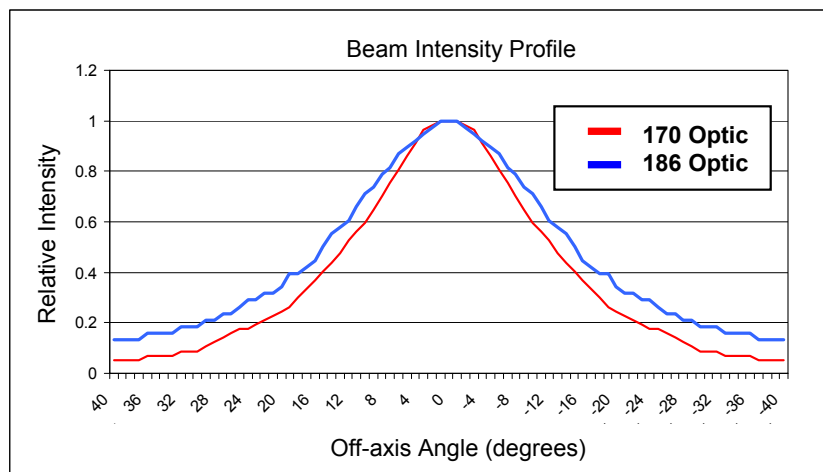
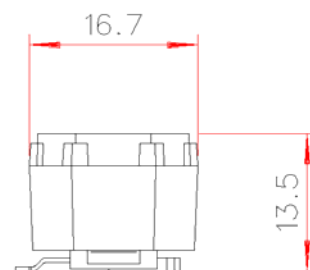
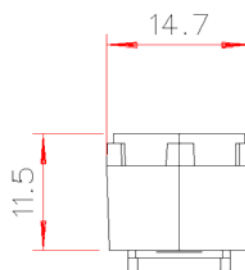
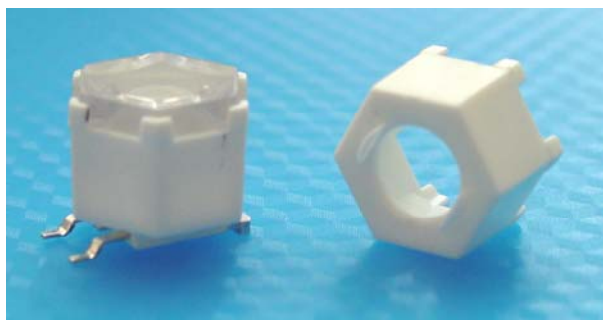
- Designed for Avago Moonstone High Power LED's
- High light collection efficiency of >85%
- Precision moulded in optical grade Polycarbonate for thermal stability and system durability
- Part of the Polymer Optics "Modular LED Optics"® range

Supplied with Holder (Part No. 182) to mount optics directly on to the Moonstone LED.

Holder locates on LED package to ensure correct optical alignment



Typical dimensional tolerances
to +/-0.2mm



The 186 Diffuse Narrow Angle Collimator can be used with both Standard and Diffuse Moonstone LEDs.

With Standard Moonstone LEDs the 186 optic will provide improved colour uniformity than the 170 optic and reduce imaging effects of the LED die.

Similarly, the 170 optic gives best performance with the Diffuse Moonstone LED types

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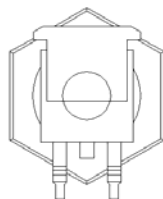
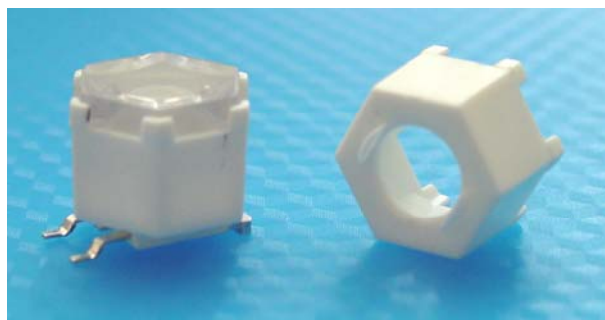
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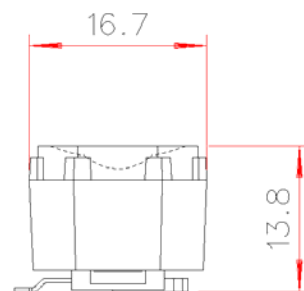
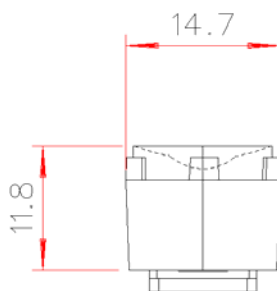
15 Degree Collimator Lens for Avago Moonstone LEDs - Part No. 198



- Designed for Avago Moonstone High Power LED's
- High light collection efficiency of >85%
- Precision moulded in optical grade Polycarbonate for thermal stability and system durability
- Part of the Polymer Optics "Modular LED Optics"® range



Typical dimensional tolerances
to +/-0.2mm



Polymer Optics "Modular LED Optics"® design, based on a hexagonal format, allows maximum packing density and assembly flexibility

Supplied with Holder (Part No. 182) to mount optics directly on to the Moonstone LED. Holder locates on LED package to ensure correct optical alignment

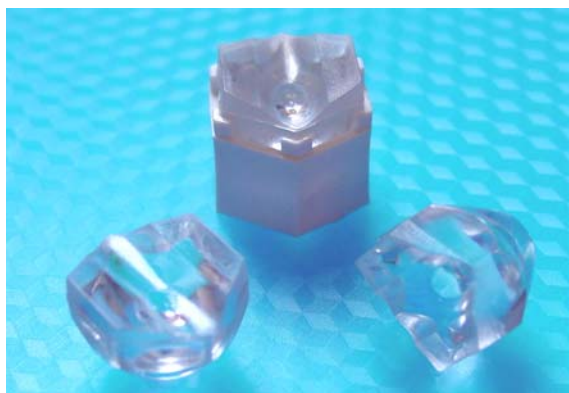


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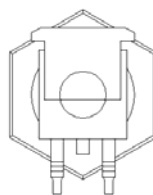
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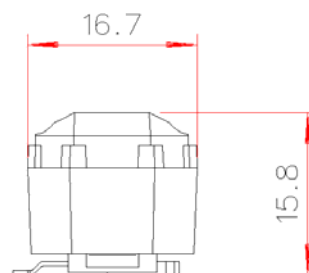
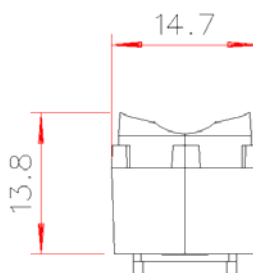
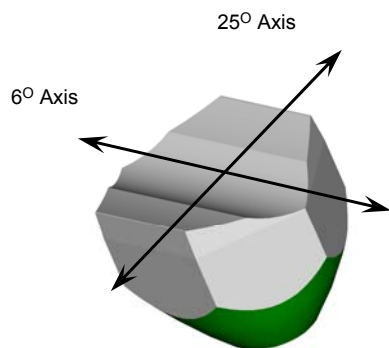
Diffuse 6x25 Degree Collimator Lens for Avago Moonstone LEDs - Part No. 218



- Designed for Avago Moonstone High Power LED's
- High light collection efficiency of >85%
- Diffuse output surface for improved beam uniformity
- Precision moulded in optical grade Polycarbonate for thermal stability and system durability
- Part of the Polymer Optics "Modular LED Optics"® range



Typical dimensional tolerances to
+/-0.2mm



Polymer Optics "Modular LED Optics"® design, based on a hexagonal format, allows maximum packing density and assembly flexibility

Supplied with Holder (Part No. 182) to mount optics directly on to the Moonstone LED. Holder locates on LED package to ensure correct optical alignment



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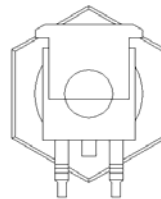
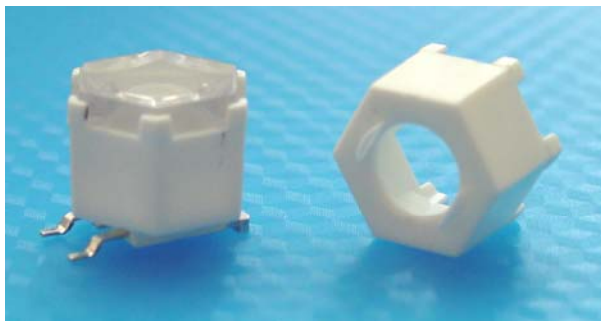
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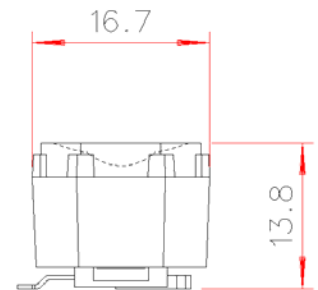
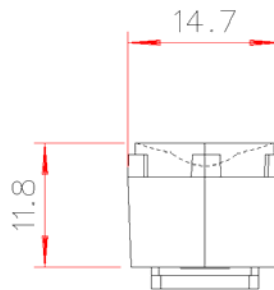
Diffuse 25 Degree Collimator Lens for Avago Moonstone LEDs - Part No. 219



- Designed for Avago Moonstone High Power LED's
- High light collection efficiency of >85%
- Diffuse output surface for improved beam uniformity
- Precision moulded in optical grade Polycarbonate for thermal stability and system durability
- Part of the Polymer Optics "Modular LED Optics"® range



Typical dimensional tolerances
to +/-0.2mm



Polymer Optics "Modular LED Optics"® design, based on a hexagonal format, allows maximum packing density and assembly flexibility

Supplied with Holder (Part No. 182) to mount optics directly on to the Moonstone LED. Holder locates on LED package to ensure correct optical alignment

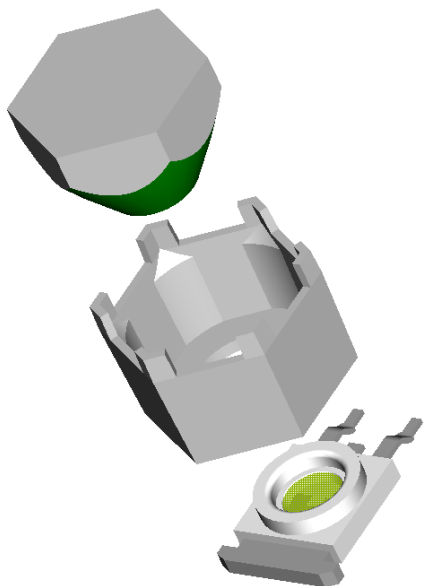


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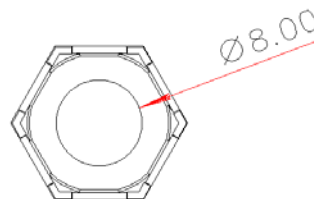
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Lens Holder for Avago Moonstone LEDs - Part No. 182

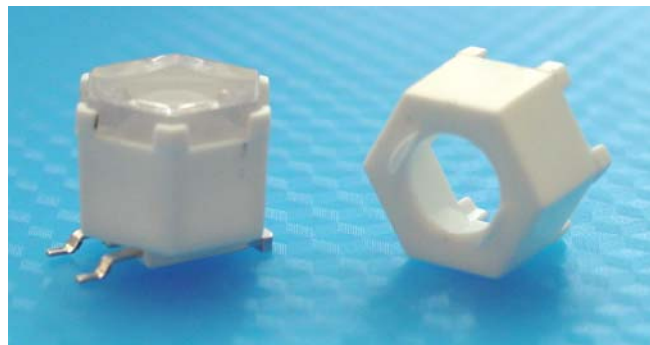
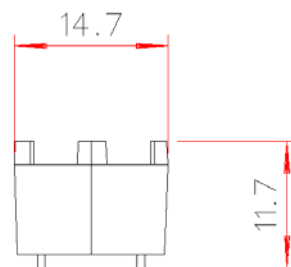
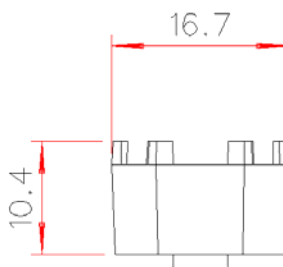
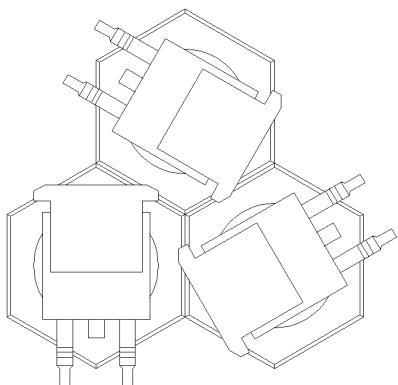


- Designed for use with Polymer Optics “Modular LED Optics”[®] and custom Polymer Optics designs
- Designed for Avago Moonstone High Power LED's
- High light collection efficiency of >85%
- Precision moulded in optical grade Polycarbonate for thermal stability and system durability
- Part of the Polymer Optics “Modular LED Optics”[®] range



Typical dimensional tolerances to +/-0.2mm

Polymer Optics “Modular LED Optics”[®] design, based on a hexagonal format, allows maximum packing density and assembly flexibility



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