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50mm Ultra Broadband Wire Grid Linear Polarizer



Mounted Ultra Broadband Wire Grid Linear Polarizer

Stock **#34-316** **2 In Stock**

1 MRP ₹3,00,148

Price inclusive of all taxes

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Volume Pricing

Qty 1-10	₹3,00,148 each
Qty 11+	₹2,57,775 each
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General

Linear Polarizer **Type:**

Physical & Mechanical Properties

42.0 **Clear Aperture CA (mm):**

50.00 **Diameter (mm):**

5.80	Thickness (mm):
±0.4	Dimensional Tolerance (mm):
Wire Grid	Construction:
±1.0	Alignment Tolerance (°):

Optical Properties

±20 without depolarization	Angle of Incidence (°):
5000:1 @ 3200nm	Extinction Ratio:
Fused Silica (Coming 7980)	Substrate: <input type="checkbox"/>
80-50	Surface Quality:
>80 (Typical) @ 450nm	Transmission (%):
300 - 3200	Wavelength Range (nm):

Material Properties

$5.5 \times 10^{-7}/^{\circ}\text{C}$	Thermal Expansion:
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Environmental & Durability Factors

-40 to +200	Operating Temperature (°C):
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Regulatory Compliance

Compliant	RoHS 2015:
Compliant	Reach 224:
View	Certificate of Conformance:
United States	Country of Origin:
Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91- 80-6845 0000	Imported By:

Product Details

- Reflect S-Polarized Light
- Transmit P-Polarized Light
- Excellent Performance from UV to IR

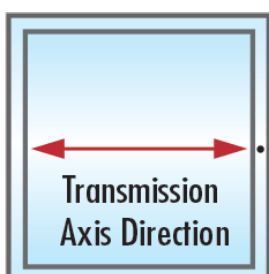
Ultra Broadband Wire Grid Polarizers consist of a thin layer of aluminum MicroWires layered between two Fused Silica windows. Designed for multi-wavelength applications, these polarizers have excellent heat resistance and performance beginning in the UV and extending into the infrared (IR). The polarizers feature a fused silica substrate. Ultra Broadband Wire Grid Polarizers reflect S-polarized light and transmit P-polarized light. These polarizers are available in a variety of thicknesses and clear apertures, in either a 12.5, 25, or 50mm diameter.

Note: The input beam should be oriented towards the cover glass side, indicated by a reference mark which also indicates the direction of the transmission axis.

Wire Grid Polarizers are constructed by attaching MicroWires to the first window, and then applying a thin cover glass onto the wire grid surface to protect the wire from damage. The light is polarized by the birefringent nature of the wire grid surface. When incident light strikes the wire grid, P-polarized light contacts a dielectric and is transmitted, while S-polarized light contacts a mirror and is reflected.

Technical Information

The reference mark on the side of the polarizer indicates the transmission axis as shown:



Typical Performance

