

## 25.4mm Wire Grid Polarizing Cube



Stock **#89-604** 20+ In Stock

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+

A\$848<sup>.00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | A\$848.00 each                |
| Qty 6-24       | A\$686.40 each                |
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General

Type:

Linear Polarizer

Physical & Mechanical Properties

Clear Aperture (%):

>90

Construction:

Wire Grid

Dimensions (mm):

25.4 x 25.4 x 25.4 ±0.3

| Optical Properties                            |                                                                                           |
|-----------------------------------------------|-------------------------------------------------------------------------------------------|
| Beam Deviation (arcmin):                      | <5                                                                                        |
| Coating Specification:                        | R <sub>avg</sub> <0.5% @ 400 - 700nm                                                      |
| Efficiency (T <sub>p</sub> *R <sub>s</sub> ): | >62% @ 450nm<br>>65% @ 550nm & 650nm                                                      |
| Extinction Ratio:                             | 1000:1 @ 450nm<br>2000:1 @ 550nm<br>3000:1 @ 650nm                                        |
| Substrate: <input type="checkbox"/>           | N-BK7                                                                                     |
| Surface Quality:                              | 40-20                                                                                     |
| Transmission (%):                             | T <sub>p</sub> >72% @ 450nm<br>T <sub>p</sub> >75% @ 550nm<br>T <sub>p</sub> >78% @ 650nm |
| Transmitted Wavefront Distortion (RMS):       | <0.33λ @ 633nm                                                                            |
| Wavelength Range (nm):                        | 400 - 700                                                                                 |

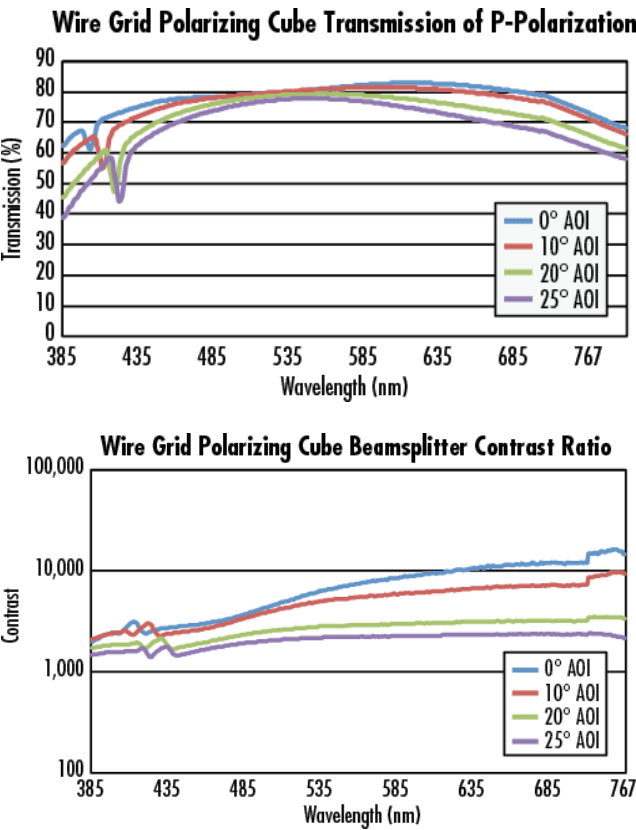
| Regulatory Compliance       |                      |
|-----------------------------|----------------------|
| RoHS 2015:                  | Compliant            |
| Certificate of Conformance: | <a href="#">View</a> |
| REACH 241:                  | Compliant            |

## Product Details

- High Contrast Over Large Angles of Incidence
- Low Color Shift at Large Angles
- Ideal for Uncollimated Light Sources

Wire Grid Polarizing Cube Beamsplitters are designed for applications using uncollimated light, such as with a broadband white light source. Wire Grid Polarizing Cube Beamsplitters consist of a wire grid polarizer cemented between two precision high tolerance right angle prisms. An anti-reflection coating has been applied to each face of the beamsplitter to provide less than 0.5% average reflection per surface. Additionally, these beamsplitters maintain their contrast spectrally from 400 – 700nm and over a large cone angle of ±25°.

## Technical Information



| Wavelength  | Incident Cone of Light |         |         |         |         |
|-------------|------------------------|---------|---------|---------|---------|
|             | ±5°                    | ±10°    | ±15°    | ±20°    | ±25°    |
| 400 - 500nm | 2,100:1                | 2,000:1 | 1,600:1 | 1,400:1 | 1,100:1 |
| 500 - 600nm | 4,000:1                | 3,900:1 | 2,900:1 | 2,600:1 | 1,900:1 |

|             |         |         |         |         |         |
|-------------|---------|---------|---------|---------|---------|
| 600 - 700nm | 6,000:1 | 5,500:1 | 4,200:1 | 3,800:1 | 2,500:1 |
|-------------|---------|---------|---------|---------|---------|

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