

25.4mm Wire Grid Polarizing Cube



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

1 C\$742⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-5	C\$742.00 each
Qty 6-24	C\$600.60 each
Need More?	Request Quote

Product Downloads	
STEP:step	PDF Drawing:pdf
IGES:igs	eDrawing:eprt
EO Spec Sheet	Download All

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_{avg} <0.5% @ 400 - 700nm

Efficiency (T_p*R_s): >62% @ 450nm
>65% @ 550nm & 650nm

Extinction Ratio: 1000:1 @ 450nm
2000:1 @ 550nm
3000:1 @ 650nm

Substrate: [N-BK7](#)

Surface Quality: 40-20

Transmission (%): T_p >72% @ 450nm
T_p >75% @ 550nm
T_p >78% @ 650nm

Transmitted Wavefront Distortion (RMS): <0.33λ @ 633nm

Wavelength Range (nm): 400 - 700

Regulatory Compliance

RoHS 2015: [Compliant](#)

Certificate of Conformance: [View](#)

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 $\pm 25^\circ$.

Technical Information

Wavelength	Incident Cone of Light				
	$\pm 5^\circ$	$\pm 10^\circ$	$\pm 15^\circ$	$\pm 20^\circ$	$\pm 25^\circ$
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

Related Products



Metric Prism Mounts



English Prism Mounts



C, S, and T-Mount Cube and Plate Mounts



#58-877 - 25mm Cube Beamsplitter Adapter
C\$69.65

Qty

Frequently Purchased Together



#03-629 - C-Mount Double Male Thread Ring
C\$51.45

Qty



#32-334 - 20mm, Uncoated, N-BK7 Right Angle Prism
C\$100.10

Qty



#32-861 - 25.0mm Dia. x 125.0mm FL, Uncoated, Plano-Convex Lens
C\$45.85

Qty



#03-618 - 5mm Spacer to convert CS-Mount Cameras to C-Mount
C\$40.60

Qty

Resources

Media Type

- Application Note
- FAQ
- Glossary
- Technical Tool
- Video

APPLICATION NOTE
An Introduction to Optical Coatings

CASE STUDIES
Laser Optics for Eye Surgery

CASE STUDIES
Using IR Spectroscopy for Counterfeit Drug Detection

APPLICATION NOTE
Introduction to Polarization

? FAQ
I would like to split light from a circularly polarized laser...

GLOSSARY
Non-Polarizing Beamsplitter

[View More](#)