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TECHSPEC® 10mm NIR, 70R/30T, Non-Polarizing Cube Beamsplitter

Stock **#13-437** **14 In Stock**

- 1 + **C$350**.00

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Volume Pricing	
Qty 1-5	**C$350.00** each
Qty 6-25	**C$280.00** each
Qty 26-99	**C$262.50** each
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Product Downloads

General

Type:

Non-Polarizing Beamsplitter

Physical & Mechanical Properties

Bevel:

Protective as needed

Clear Aperture (%):

>90

Construction:
Cube

Dimensions (mm):
10.0 x 10.0 x 10.0 ±0.1

Optical Properties

Beam Deviation (arcmin):
≤2

Coating:
NIR

Coating Specification:
R_{avg} <0.5% @ 720 - 1080nm

Reflection/Transmission Ratio (R/T):
70/30

Substrate:
N-BK7

Surface Quality:
40-20

Wavelength Range (nm):
720 - 1080

|Ts-Tp|:
<6%

Absolute Transmission (%):
27 ±10

Average Transmission (%):
27 ±5

Power (fringes) @ 632.8nm:
1.25

Irregularity (fringes) @ 632.8nm:
0.25

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

REACH 241:
Compliant

Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

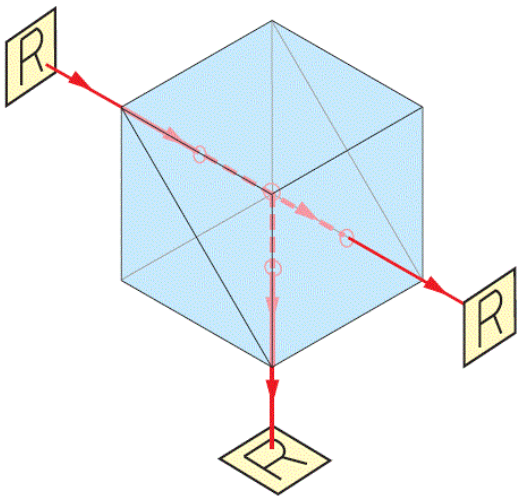
Learn more about our custom manufacturing capabilities or submit an inquiry here.

Product Details

- Low Polarization Dependence: |Ts-Tp|<6%
- Constructed from High Tolerance Right Angle Prisms
- BBAR Coated Faces for Maximum Efficiency
- C-Mounted Visible and NIR **Cube Beamsplitters** Also Available

TECHSPEC® Broadband Non-Polarizing Cube Beamsplitters consist of a pair of precision high tolerance **right angle prisms** cemented together with a metallic dielectric coating on the hypotenuse of one of the prisms. The low polarization dependence of the metallic dielectric hybrid coating allows the transmission and reflection of S- and P-polarization states to be within 6% of each other. These beamsplitters feature anti-reflection (AR) coatings to maximize transmission across wavelengths ranging from 400-1620nm. TECHSPEC® Broadband Non-Polarizing Cube Beamsplitters are spectrally flat across their specified wavelength ranges, reducing effects caused by changes in the angle of incidence or converging/diverging beams. These beamsplitters are ideal for applications that require splitting of light, such as interferometers and polarimeters.

Technical Information


R
R
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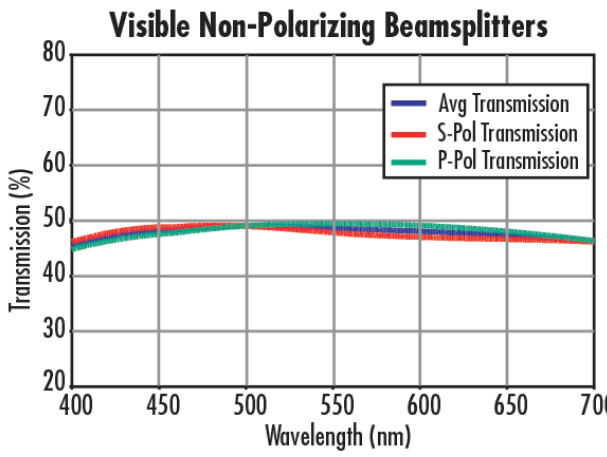
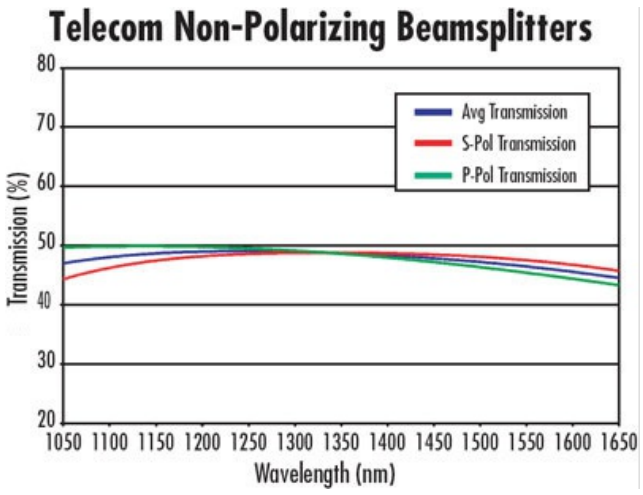
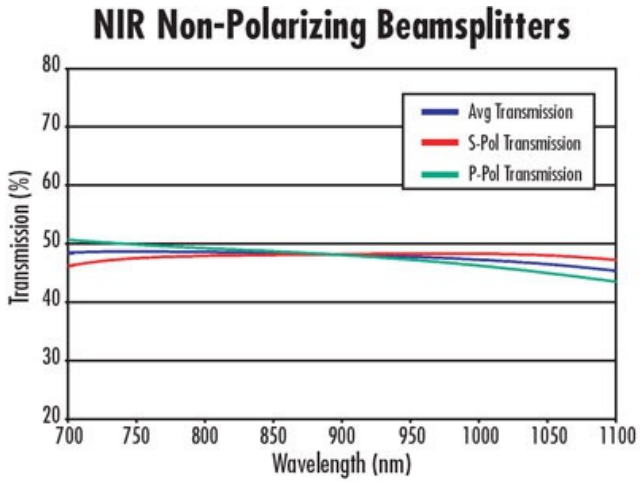
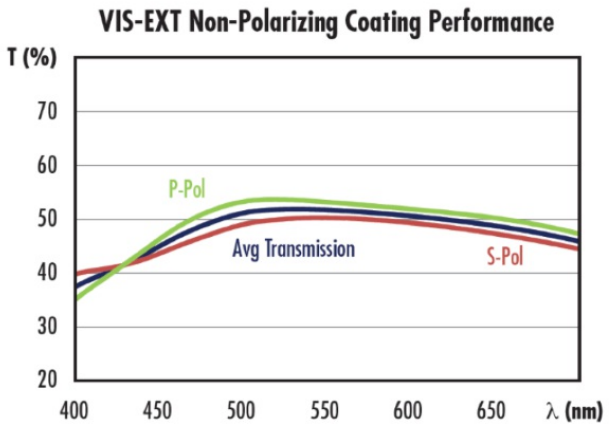

Visible Non-Polarizing Beamsplitters
Avg Transmission
S-Pol Transmission
P-Pol Transmission
Transmission (%)
80
70
60
50
40
30
20
400 450 500 550 600 650 700
Wavelength (nm)


Telecom Non-Polarizing Beamsplitters
Avg Transmission
S-Pol Transmission
P-Pol Transmission
Transmission (%)
80
70
60
50
40
30
20
1050 1100 1150 1200 1250 1300 1350 1400 1450 1500 1550 1600 1650
Wavelength (nm)


NIR Non-Polarizing Beamsplitters
Avg Transmission
S-Pol Transmission
P-Pol Transmission
Transmission (%)
80
70
60
50
40
30
20
700 750 800 850 900 950 1000 1050 1100
Wavelength (nm)


VIS-EXT Non-Polarizing Coating Performance
T (%)
70
60
50
40
30
20
P-Pol
Avg Transmission
S-Pol
400 450 500 550 600 650 λ (nm)

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