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TECHSPEC® 12.7mm Dia., 715 - 980nm, 90R:10T, Ultrafast Beamsplitter

TECHSPEC® Ultrafast Beamsplitters

Stock **#13-829** **20+ In Stock**

- 1 + **₹20,700**

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Volume Pricing	
Qty 1-4	**₹20,700** each
Qty 5-9	**₹18,360** each
Qty 10-19	**₹16,200** each
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General

Type:
Ultrafast Non-Polarizing Beamsplitter

Physical & Mechanical Properties

Thickness (mm):
3.00 ±0.10

Diameter (mm):
12.70 +0.00/-0.10

Clear Aperture (%):
80

Parallelism (arcsec):
<10

Optical Properties

Substrate:
Fused Silica (Corning 7980)

Surface Quality:
10-5

Angle of Incidence (°):
45

Wavelength Range (nm):
715 - 980

Reflection/Transmission Ratio (R/T):
90/10

Coating Specification:
Surface 1:
R_{avg} = 90±3% @ 715 - 980nm
R_p = 83±3% @ 715 - 980nm
R_s = 97±3% @ 715 - 980nm
Surface 2:
R_s <2% @ 650 - 1100nm
R_p <1.5% @ 650 - 1100nm

GDD Specification:
Transmission: ±65 fs^2 @ 715 - 980nm
Reflectivity: ±75 fs^2 @ 715 - 980nm

Transmitted Wavefront Distortion:
λ/8 @ 632.8nm

Reflected Wavefront Distortion:
<λ/3 @ 632.8nm

Regulatory Compliance

Certificate of Conformance:
View

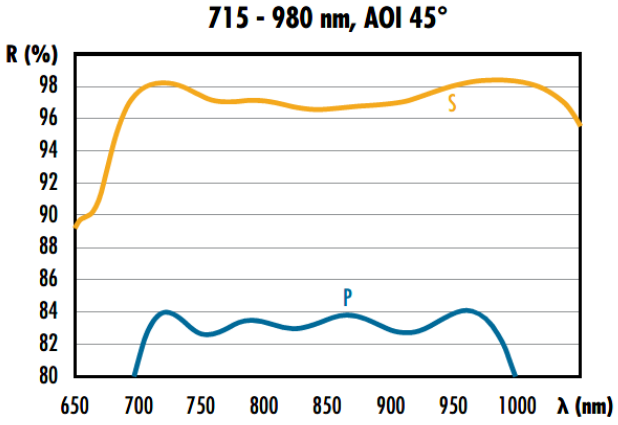
Product Details

- Designs for Ti:sapphire and Yb:doped Fiber Lasers
- 90:10, 70:30, and 50:50 (R:T) Split Ratios
- Controlled Reflection and Transmission GDD

TECHSPEC® Ultrafast Beamsplitters are designed for use with femtosecond pulsed Ti:sapphire and Yb:doped fiber lasers. Their front surface features a 90:10, 70:30, or 50:50 (R:T) non-polarizing beamsplitter coating while their back surface features an anti-reflective coating to minimize losses due to reflection. Each coating has controlled dispersion to allow for predictable group delay dispersion (GDD) of the transmitted or reflected pulses. TECHSPEC Ultrafast Beamsplitters are available in standard imperial sizes for easy integration into optical systems. Please contact us if your application requires an Ultrafast Beamsplitter with a custom size or coating specifications.

Note: The arrow on the edge of these optics points towards the beamsplitter coating.

Technical Information



Compatible Mounts