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TECHSPEC® 25.4mm Dia., 550 - 1050nm, 50R:50T, Ultrafast Beamsplitter



TECHSPEC® Ultrafast Beamsplitters

Stock **#17-068** **3 In Stock**

⊖ 1 ⊕ €645⁰⁰

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Volume Pricing	
Qty 1-9	€645,00 each
Qty 10+	€575,00 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

BS1631 **Model Number:**

Ultrafast Non-Polarizing Beamsplitter **Type:**

Physical & Mechanical Properties

1.00 **Thickness (mm):**

25.40 +0.00/-0.05	Diameter (mm):
80	Clear Aperture (%):
<10	Parallelism (arcsec):
Optical Properties	
Fused Silica (Corning 7980)	Substrate: <input type="checkbox"/>
10-5 (substrate)	Surface Quality:
45	Angle of Incidence (°):
550 - 1050	Wavelength Range (nm):
50/50	Reflection/Transmission Ratio (R/T):
Coating Specification:	
Surface 1: $R_{avg} = 50\%$ @ 550 - 1050nm $R_p = 35\pm 3\%$ @ 550 - 1050nm $R_s = 67\pm 3\%$ @ 550 - 1050nm	
Surface 2: $R_s < 2\%$ @ 550 - 1050nm $R_p < 1.5\%$ @ 550 - 1050nm	
GDD Specification:	
Transmission: 0 fs^2 @ 550 - 1050nm	
Reflectivity: 0 fs^2 @ 550 - 1050nm	
Transmitted Wavefront Distortion:	
<N10 @ 632.8nm	
Reflected Wavefront Distortion:	
<N10 @ 632.8nm	

Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 235:

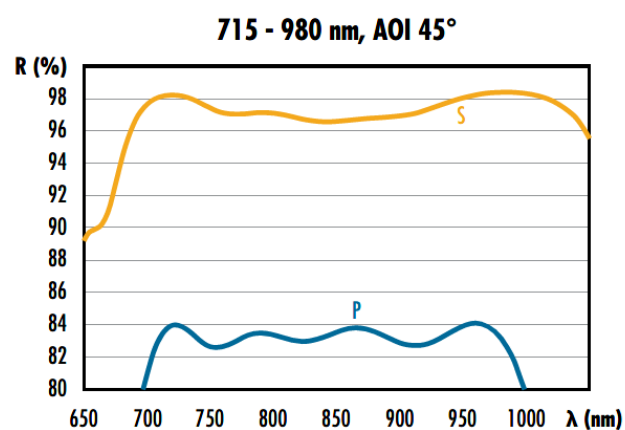
Product Details

- 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

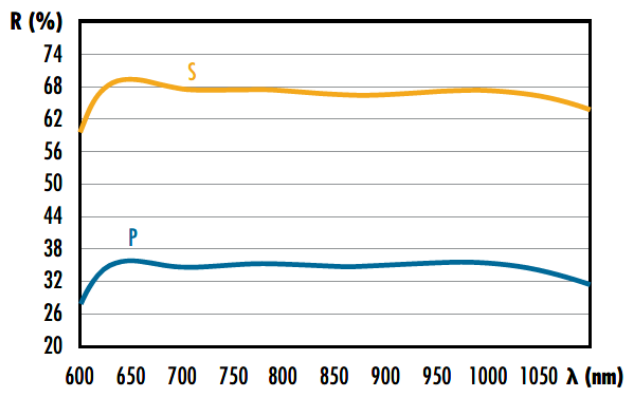
TECHSPEC® Ultrafast Beamsplitters are designed for use with femtosecond pulsed Ti:sapphire and Yb:doped fiber lasers. Their front surface features a 90:10, 70:30, or 50:50 (R:T) non-polarizing beamsplitter coating while their back surface features an anti-reflective coating to minimize losses due to 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



650 - 1050nm, AOI 45°



680 - 1020nm, AOI 45°

