

**TECHSPEC® 613nm, 25mm Diameter, Dichroic Laser Beam Combiner**



TECHSPEC® Dichroic Laser Beam Combiners

Stock #86-394 **20+ In Stock**

⊖ 1 ⊕ ₹21,798

**ADD TO CART**

Volume Pricing	
Qty 1-5	₹21,798 each
Qty 6-25	₹17,127 each
Qty 26-49	₹16,115 each
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**SPECIFICATIONS**

**General**

Dichroic Filter **Type:**

**Physical & Mechanical Properties**

25.00 +0.0/-0.1	<b>Diameter (mm):</b>
21.3	<b>Clear Aperture CA (mm):</b>
<b>Construction:</b> Mounted in Black Anodized Ring	
<b>Physical Durability:</b> Adhesion per MIL-PRF-13830B, Section C.4.5.12 Moderate abrasion per MIL-PRF-13830B, Section C.4.5.11 Cleaning per MIL-C-48497A Section 4.5.4.2	

2	<b>Substrate Thickness (mm):</b>
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## Optical Properties

45	<b>Angle of Incidence (°):</b>
613.00	<b>Cut-On Wavelength (nm):</b>

<b>Fused Silica</b> (Corning 7980)	<b>Substrate:</b> <input type="checkbox"/>
Hard Coated	<b>Coating:</b>

561.4, 568.2, 594.1	<b>Reflected Laser Wavelength (nm):</b>
>98	<b>Reflection (%):</b>

561.4 - 594.1	<b>Reflection Wavelength (nm):</b>
60-40	<b>Surface Quality:</b>

>95	<b>Transmission (%):</b>
632.8 - 790	<b>Transmission Wavelength (nm):</b>

632.8, 635, 647.1, 671, 676.4, 785	<b>Transmitted Laser Wavelength (nm):</b>
<1λ	<b>Transmitted Wavefront, RMS:</b>

561 - 790	<b>Wavelength Range (nm):</b>
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## Threading & Mounting

3.5 ±0.1	<b>Mount Thickness (mm):</b>
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## Environmental & Durability Factors

<b>Environmental Durability:</b> Humidity per MIL-STD-810H, Section 507.6 Temperature per MIL-STD-810H, Section 501.7 and 502.7	
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## Regulatory Compliance

<b>Compliant</b>	<b>RoHS 2015:</b>
<b>View</b>	<b>Certificate of Conformance:</b>
<b>Compliant</b>	<b>Reach 247:</b>

# PRODUCT DETAILS

- Polarization Insensitive
- Hard Sputtered Coating
- Multiple Sizes Available

TECHSPEC® Dichroic Laser Beam Combiners are designed to efficiently combine or separate multiple laser beams at a 45° angle of incidence. The filters feature greater than 98% reflection and greater than 95% transmission at popular laser lines, yielding exceptionally low loss. These filters are available in a 12.5, 25, and 50mm diameters, with a range of cut-on, reflection, and transmission wavelengths. These filters are ideal for multi-laser fluorescence imaging and measurement applications, including laser microscopy and flow cytometry. TECHSPEC® Dichroic Laser Beam Combiners are constructed from low autofluorescence substrates with hard sputtered coatings. These filters are ideal for multi-laser fluorescence imaging and measurement applications, including laser microscopy and flow cytometry.

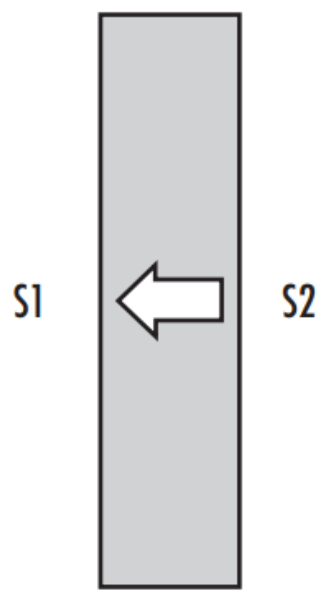
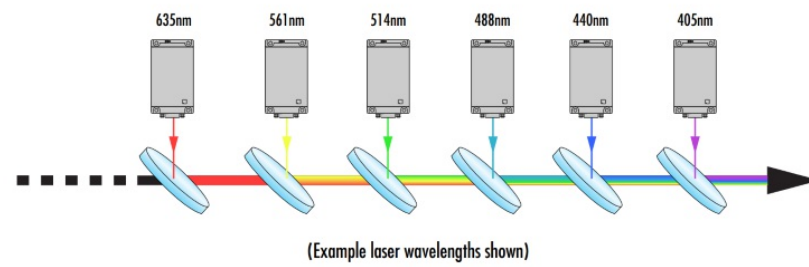
**Note:** These filters are optimized for high spectral performance rather than high Laser Induced Damage Thresholds (LIDT). A typical LIDT for these filters is 1 J/cm<sup>2</sup> @ 532nm, 10ns. Please [contact us](#) if you require a filter with a higher LIDT value.





LEARN MORE

## TECHNICAL INFORMATION



All mounted TECHSPEC® Optical Filters have an arrow on the side of the mount that points to the filter-coated surface for quick reference. Filter oriented such that arrow points to filter coated surface S1. Anti-reflective (AR) coating is applied to S2.

## CUSTOM

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](#).

## COMPATIBLE MOUNTS

