

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



TECHSPEC[®] Dichroic Laser Beam Combiners

Stock **#86-394** **13 In Stock**

-

1

+

C\$415⁰⁰

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Volume Pricing	
Qty 1-5	C\$415.80 each
Qty 6-25	C\$352.80 each
Qty 26-49	C\$327.60 each
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Product Downloads

General

Dichroic Filter

Type:

Physical & Mechanical Properties

25.00 +0.0/-0.1

Diameter (mm):

21.3

Clear Aperture CA (mm):

Construction:	
Mounted in Black Anodized Ring	
Physical Durability:	
Adhesion per ML-PRF-13830B, Section C.4.5.12	
Moderate abrasion per ML-PRF-13830B, Section C.4.5.11	
Cleaning per ML-C-48497A Section 4.5.4.2	
Substrate Thickness (mm):	
2	
Optical Properties	
Angle of Incidence (°):	
45	
Cut-On Wavelength (nm):	
613.00	
Substrate:	
Fused Silica (Corning 7980)	
Coating:	
Hard Coated	
Reflected Laser Wavelength (nm):	
561.4, 568.2, 594.1	
Reflection (%):	
>98	
Reflection Wavelength (nm):	
561.4 - 594.1	
Surface Quality:	
60-40	
Transmission (%):	
>95	
Transmission Wavelength (nm):	
632.8 - 790	
Transmitted Laser Wavelength (nm):	
632.8, 635, 647.1, 671, 676.4, 785	
Transmitted Wavefront, RMS:	
<1λ	
Wavelength Range (nm):	
561 - 790	
Threading & Mounting	
Mount Thickness (mm):	
3.5 ±0.1	
Environmental & Durability Factors	
Environmental Durability:	
Humidity per ML-STD-810H, Section 507.6	
Temperature per ML-STD-810H, Section 501.7 and 502.7	
Regulatory Compliance	
RoHS 2015:	
Compliant	
Certificate of Conformance:	
View	
Reach 247:	
Compliant	

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](#).

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.

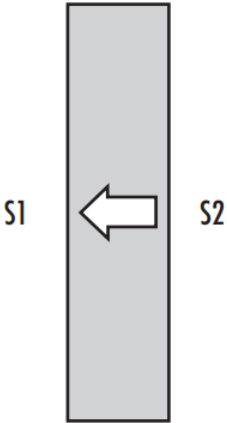
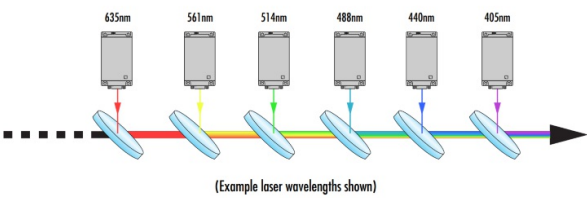
Note: These filters are optimized for high spectral performance rather than high Laser Induced Damage Thresholds (LIDT). A typical LIDT for these filters is 1 J/cm² @ 532nm, 10ns. Please [contact us](#) if you require a filter with a

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.

Compatible Mounts