

TECHSPEC® 480nm, 25mm Diameter, Dichroic Laser Beam Combiner



TECHSPEC® Dichroic Laser Beam Combiners

Stock **#86-391** 7 In Stock

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+

A\$475<sup>20</sup>

ADD TO CART

Volume Pricing	
Qty 1-5	A\$475.20 each
Qty 6-25	A\$403.20 each
Qty 26-49	A\$374.40 each
Need More?	<a href="#">Request Quote</a>

Product Downloads

SPECIFICATIONS

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 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	Substrate Thickness (mm):
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Optical Properties

45	Angle of Incidence (°):
480.00	Cut-On Wavelength (nm):

Fused Silica (Corning 7980)	Substrate: <div></div>
Hard Coated	Coating:

457.9, 473	Reflected Laser Wavelength (nm):
>98	Reflection (%):

457.9 - 473	Reflection Wavelength (nm):
60-40	Surface Quality:

>95	Transmission (%):
488 - 647.1	Transmission Wavelength (nm):

488, 514.5, 532, 543.5, 561.4, 568.2, 594.1, 632.8, 635, 647.1	Transmitted Laser Wavelength (nm):
<1λ	Transmitted Wavefront, RMS:

458 - 647	Wavelength Range (nm):
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Threading & Mounting

3.5 ±0.1	Mount Thickness (mm):
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Environmental & Durability Factors

Humidity per MIL-STD-810H, Section 507.6 Temperature per MIL-STD-810H, Section 501.7 and 502.7	Environmental Durability:
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Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

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.

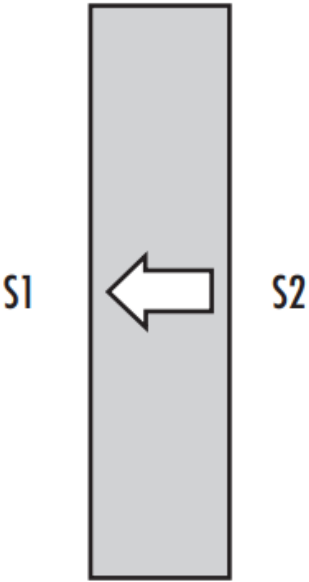
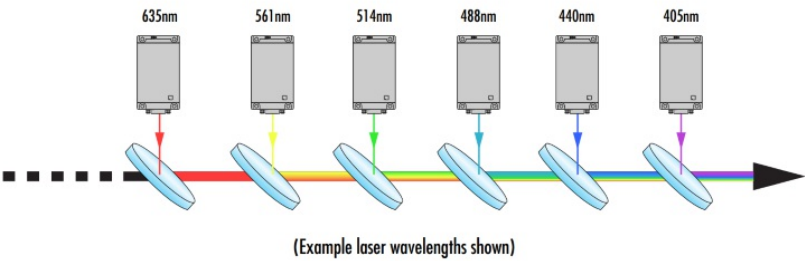
**Note:** These filters are optimized for high spectral performance rather than high Laser Induced Damage Thresholds (LIDT). A typical LIDT for these filters is 1 J/cm² @ 532nm, 10ns. Please [contact us](#) if you require a filter with a higher LIDT value.





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.

## 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

