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TECHSPEC® 552nm, 12.5mm Diameter, Dichroic Laser Beam Combiner

TECHSPEC® Dichroic Laser Beam Combiners

Stock **#86-386** **6 In Stock**

- 1 + **£171.20**

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Volume Pricing	
Qty 1-5	**£171.20** each
Qty 6-25	**£145.60** each
Qty 26-49	**£135.20** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Dichroic Filter

Physical & Mechanical Properties

Diameter (mm):

12.50 +0.0/-0.1

Clear Aperture CA (mm):

8.8

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

Substrate Thickness (mm):
2

Optical Properties

Angle of Incidence (°):
45

Cut-On Wavelength (nm):
552.00

Substrate:
Fused Silica (Corning 7980)

Coating:
Hard Coated

Reflected Laser Wavelength (nm):
514.5, 532, 543.5

Reflection (%):
>98

Reflection Wavelength (nm):
514.5 - 543.5

Surface Quality:
60-40

Transmission (%):
>95

Transmission Wavelength (nm):
561.4 - 790

Transmitted Laser Wavelength (nm):
561.4, 568.2, 594.1, 632.8, 635, 647.1, 671, 676.4, 785

Transmitted Wavefront, RMS:
<1λ

Wavelength Range (nm):
515 - 790

Threading & Mounting

Mount Thickness (mm):
3.5 ±0.1

Environmental & Durability Factors

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

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 247:
Compliant

Need different specs or modifications?

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

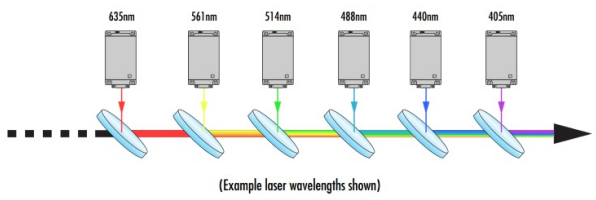
- Polarization Insensitive
- Hard Sputtered Coating
- Multiple Sizes Available

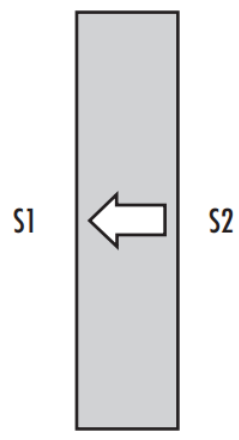
TECHSPEC® Dichroic Laser Beam Combiners are designed to efficiently combine or separate multiple laser beams at a 45° angle of incidence. The filters feature greater than 98% reflection and greater than 95% transmission at popular laser lines, yielding exceptionally low loss. These filters are available 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/cm^2 @ 532nm, 10ns. Please **contact us** if you require a filter with a higher LIDT value.

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

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