

TECHSPEC<sup>®</sup> 466nm, 12.5mm Diameter, Dichroic Laser Beam Combiner



TECHSPEC<sup>®</sup> Dichroic Laser Beam Combiners

Stock **#86-383** **3 In Stock**

-

1

+

€208<sup>00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | €208,06 each                  |
| Qty 6-25       | €162,74 each                  |
| Qty 26-49      | €152,44 each                  |
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**!** Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Dichroic Filter

Type:

| Physical & Mechanical Properties                                                                                                                                             |                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 12.50 +0.0/-0.1                                                                                                                                                              | Diameter (mm):                      |
| 8.8                                                                                                                                                                          | Clear Aperture CA (mm):             |
| Mounted in Black Anodized Ring                                                                                                                                               |                                     |
| Physical Durability:<br>Adhesion per MIL-PRF-13830B, Section C.4.5.12<br>Moderate abrasion per MIL-PRF-13830B, Section C.4.5.11<br>Cleaning per MIL-C-48497A Section 4.5.4.2 |                                     |
| 2                                                                                                                                                                            | Substrate Thickness (mm):           |
| Optical Properties                                                                                                                                                           |                                     |
| 45                                                                                                                                                                           | Angle of Incidence (°):             |
| 466.00                                                                                                                                                                       | Cut-On Wavelength (nm):             |
| Fused Silica (Corning 7980)                                                                                                                                                  | Substrate: <input type="checkbox"/> |
| Hard Coated                                                                                                                                                                  | Coating:                            |
| 440, 457.9                                                                                                                                                                   | Reflected Laser Wavelength (nm):    |
| >98                                                                                                                                                                          | Reflection (%):                     |
| 439 - 457.9                                                                                                                                                                  | Reflection Wavelength (nm):         |
| 60-40                                                                                                                                                                        | Surface Quality:                    |
| >95                                                                                                                                                                          | Transmission (%):                   |
| 473 - 647.1                                                                                                                                                                  | Transmission Wavelength (nm):       |
| 473, 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:         |
| 439 - 647                                                                                                                                                                    | Wavelength Range (nm):              |
| Threading & Mounting                                                                                                                                                         |                                     |
| 3.5 ±0.1                                                                                                                                                                     | Mount Thickness (mm):               |
| Environmental & Durability Factors                                                                                                                                           |                                     |
| Environmental Durability:<br>Humidity per MIL-STD-810H, Section 507.6<br>Temperature per MIL-STD-810H, Section 501.7 and 502.7                                               |                                     |
| 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.

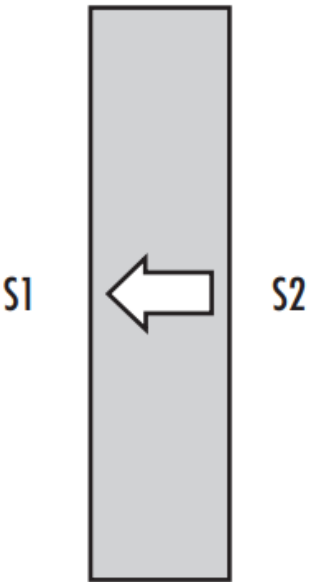
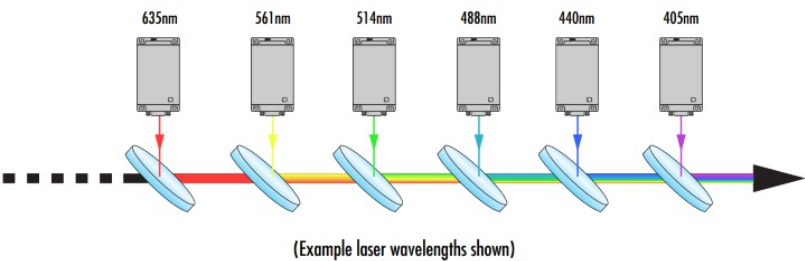
**Note:** These filters are optimized for high spectral performance rather than high Laser Induced Damage Thresholds (LIDT). A typical LIDT for these filters is 1 J/cm² @ 532nm, 10ns. Please [contact us](#) if you require a filter with a higher LIDT value.





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

