

TECHSPEC<sup>®</sup> 552nm, 12.5mm Diameter, Dichroic Laser Beam Combiner



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

Stock **#86-386** [CONTACT US](#)

-

1

+

₹15,726

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | ₹15,726 each                  |
| Qty 6-25       | ₹12,300 each                  |
| Qty 26-49      | ₹11,522 each                  |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

| General                          |                         |
|----------------------------------|-------------------------|
| Dichroic Filter                  | Type:                   |
| Physical & Mechanical Properties |                         |
| 12.50 +0.0/-0.1                  | Diameter (mm):          |
| 8.8                              | 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):                                 |  |
| 552.00                                                  |  |
| Substrate: <input type="checkbox"/>                     |  |
| 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 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                                               |  |
| Country of Origin:                                      |  |
| United States                                           |  |
| Imported By:                                            |  |
| Edmund Optics India Private Limited                     |  |

## 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.

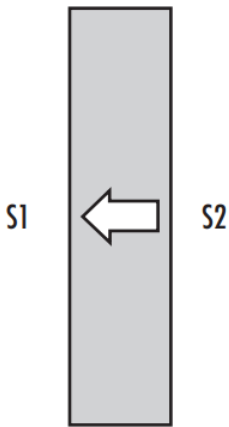
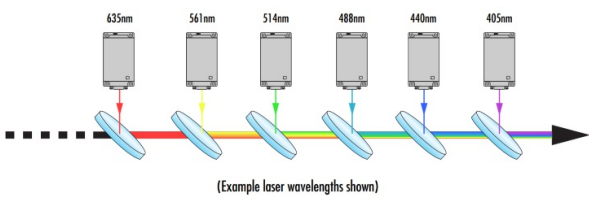
**Note:** These filters are optimized for high spectral performance rather than high Laser Induced Damage Thresholds (LIDT). Atypical LIDT for these filters is 1 J/cm<sup>2</sup> @ 532nm, 10ns. Please [contact us](#) if you require a filter with a higher LIDT value.





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### 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