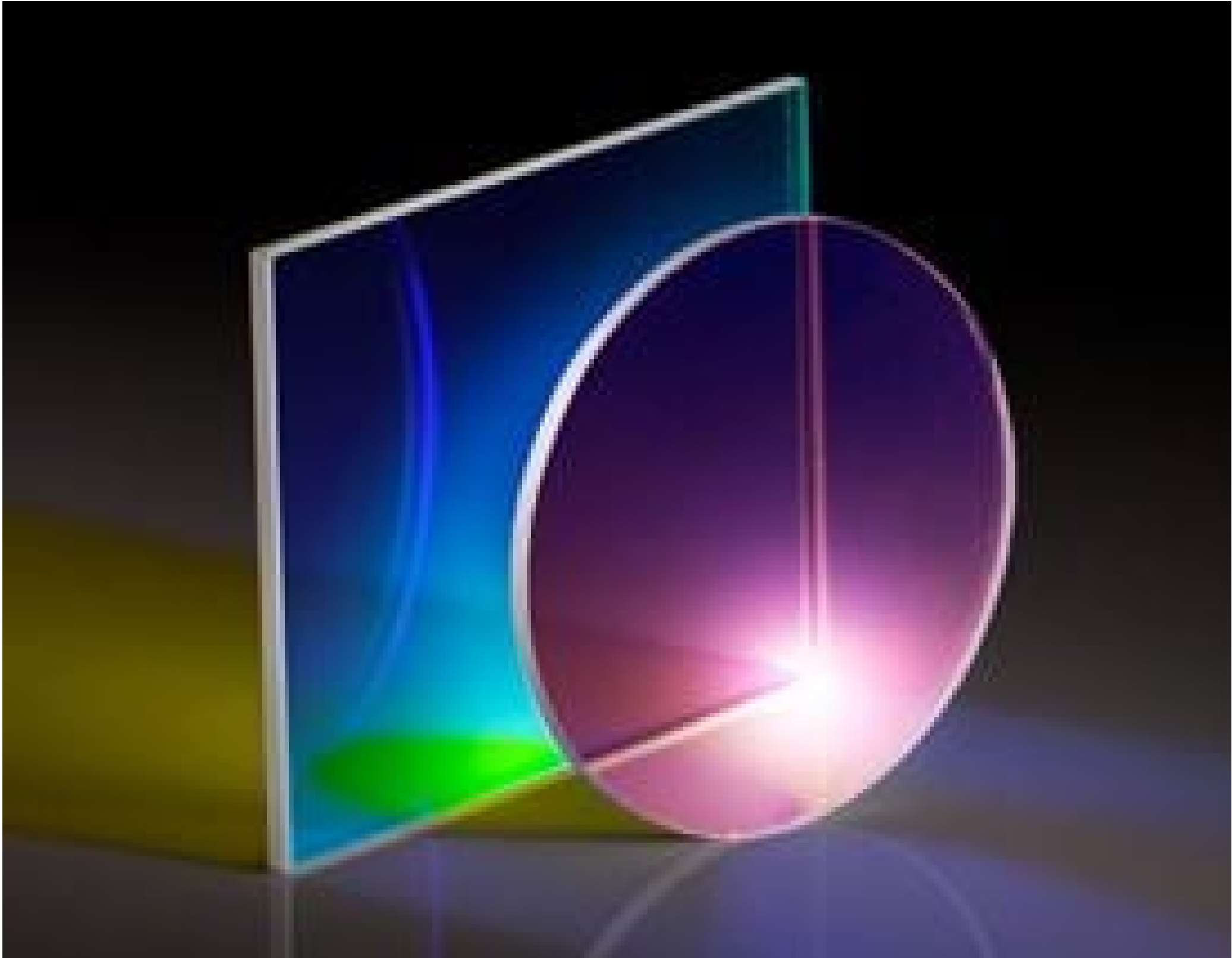


TECHSPEC<sup>®</sup> 400nm, 12.5mm Diameter, Dichroic Shortpass Filter



TECHSPEC Dichroic Shortpass Filters

Stock **#69-176** **1 In Stock**

-

1

+

A\$224<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | A\$224.00 each                |
| Qty 6-25       | A\$179.20 each                |
| Qty 26-49      | A\$169.60 each                |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

| General                          |                 |
|----------------------------------|-----------------|
| Dichroic Filter                  | Type:           |
| Physical & Mechanical Properties |                 |
| 12.50                            | Diameter (mm):  |
| 1.05 ±0.1                        | Thickness (mm): |

|                                                       |                             |
|-------------------------------------------------------|-----------------------------|
|                                                       | Dimensional Tolerance (mm): |
| +0.0/-0.2                                             |                             |
|                                                       | 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              |                             |

| Optical Properties                   |                                     |
|--------------------------------------|-------------------------------------|
| 45                                   | Angle of Incidence (°):             |
| 400.00                               | Cut-Off Wavelength (nm):            |
| Fused Silica (Corning 7980)          | Substrate: <input type="checkbox"/> |
|                                      | Coating:                            |
| Hard Coated                          |                                     |
| >80                                  | P-Polarization Transmission (%):    |
| >97 Average Polarization             | Reflection (%):                     |
| 420 - 485                            | Reflection Wavelength (nm):         |
| >80                                  | S-Polarization Transmission (%):    |
| 60-40                                | Surface Quality:                    |
| >85 Average Polarization             | Transmission (%):                   |
| 325 - 385                            | Transmission Wavelength (nm):       |
| λ/4                                  | Transmitted Wavefront, RMS:         |
| 3.00                                 | Slope Factor (%):                   |
| ±2                                   | Cut-Off Tolerance (%):              |
| >95                                  | S-Polarization Reflection (%):      |
| >95                                  | P-Polarization Reflection (%):      |
| Coating Specification:               |                                     |
| Surface 1: Hard Dielectric Sputtered |                                     |
| Surface 2: AR Coated                 |                                     |
| 325 - 485                            | Wavelength Range (nm):              |

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

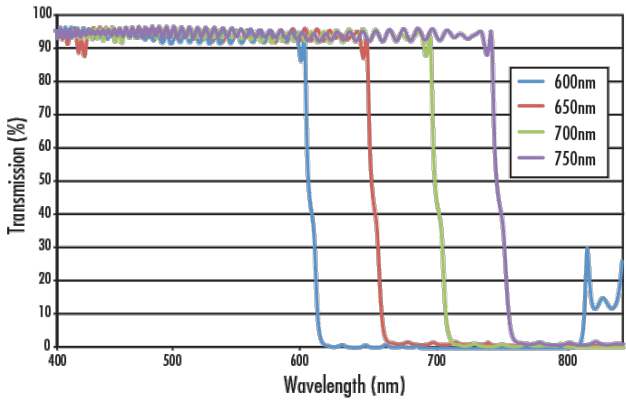
## Product Details

- Sharp Cut-Off Wavelength
- Broad Transmission and Reflection Ranges
- Available in a Range of Common Sizes

Our TECHSPEC® Dichroic Shortpass Filters are designed for a 45° angle of incidence. The rejected light is reflected at 90°, making these filters ideal for use in fluorescence applications or as spectral beamsplitters. The filters feature low polarization dependence, broad spectral ranges, and a precision fused silica substrate. TECHSPEC® Dichroic Shortpass Filters have a sharp cut-off wavelength and are available in a wide range of sizes for ease of system integration. These filters can be combined with TECHSPEC® Dichroic Longpass Filters to create custom bandpass filters.

**Note:** The chevron on the edge of the filter points towards surface S1 with the primary filter coating on which the light should be incident.

## Technical Information



## 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