

TECHSPEC<sup>®</sup> 650nm, 12.5 x 17.6mm, Dichroic Shortpass Filter



TECHSPEC Dichroic Shortpass Filters

Stock **#69-193** **2 In Stock**

-

1

+

S\$203<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | <b>S\$203.00</b> each         |
| Qty 6-25       | <b>S\$162.40</b> each         |
| Qty 26-49      | <b>S\$154.00</b> each         |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

General

Dichroic Filter

Type:

Physical & Mechanical Properties

12.5 x 17.6

Dimensions (mm):

17.60

Length (mm):

|                                                                                                                                                                              |                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| 1.05 ±0.1                                                                                                                                                                    | Thickness (mm):             |
| 12.50                                                                                                                                                                        | Width (mm):                 |
| +0.0/-0.2                                                                                                                                                                    | Dimensional Tolerance (mm): |
| 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 |                             |

|                                                                                        |                                     |
|----------------------------------------------------------------------------------------|-------------------------------------|
| Optical Properties                                                                     |                                     |
| 45                                                                                     | Angle of Incidence (°):             |
| 650.00                                                                                 | Cut-Off Wavelength (nm):            |
| Fused Silica (Corning 7980)                                                            | Substrate: <input type="checkbox"/> |
| Hard Coated                                                                            | Coating:                            |
| >80                                                                                    | P-Polarization Transmission (%):    |
| >97 Average Polarization                                                               | Reflection (%):                     |
| 675 - 850                                                                              | Reflection Wavelength (nm):         |
| >80                                                                                    | S-Polarization Transmission (%):    |
| 60-40                                                                                  | Surface Quality:                    |
| >85 Average Polarization                                                               | Transmission (%):                   |
| 400 - 630                                                                              | 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:<br>Surface 1: Hard Dielectric Sputtered<br>Surface 2: AR Coated |                                     |
| 400 - 850                                                                              | Wavelength Range (nm):              |

|                                                                                                                                |  |
|--------------------------------------------------------------------------------------------------------------------------------|--|
| 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:                  |

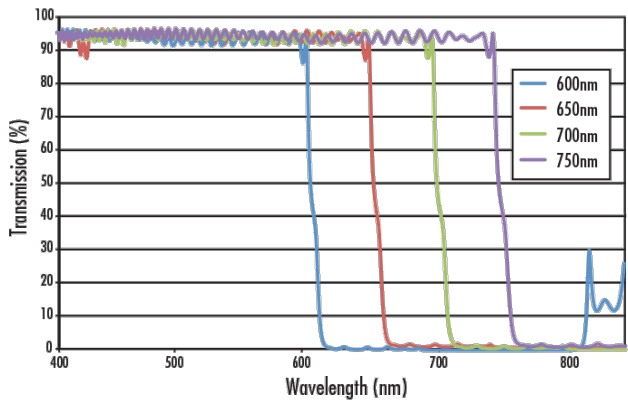
## Product Details

- 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

