

TECHSPEC<sup>®</sup> 1000nm, 25mm Diameter, Dichroic Shortpass Filter



TECHSPEC Dichroic Shortpass Filters

Stock **#86-689** **1 In Stock**

-

1

+

£160<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | £160.00 each                  |
| Qty 6-25       | £128.00 each                  |
| Qty 26-49      | £121.60 each                  |
| Need More?     | <a href="#">Request Quote</a> |

 Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Dichroic Filter

Physical & Mechanical Properties

Diameter (mm):

25.00

Thickness (mm):

|                                                       |  |
|-------------------------------------------------------|--|
| 1.05 ±0.1                                             |  |
| 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                                    |  |
| Angle of Incidence (°):                               |  |
| 45                                                    |  |
| Cut-Off Wavelength (nm):                              |  |
| 1,000.00                                              |  |
| Substrate: <input type="checkbox"/>                   |  |
| Fused Silica (Corning 7980)                           |  |
| Coating:                                              |  |
| Hard Coated                                           |  |
| P-Polarization Transmission (%):                      |  |
| >80                                                   |  |
| Reflection (%):                                       |  |
| >97 Average Polarization                              |  |
| Reflection Wavelength (nm):                           |  |
| 1050 - 1300                                           |  |
| S-Polarization Transmission (%):                      |  |
| >80                                                   |  |
| Surface Quality:                                      |  |
| 60-40                                                 |  |
| Transmission (%):                                     |  |
| >85 Average Polarization                              |  |
| Transmission Wavelength (nm):                         |  |
| 520 - 960                                             |  |
| Transmitted Wavefront, RMS:                           |  |
| λ/4                                                   |  |
| Cut-Off Tolerance (%):                                |  |
| ±2                                                    |  |
| S-Polarization Reflection (%):                        |  |
| >95                                                   |  |
| P-Polarization Reflection (%):                        |  |
| >95                                                   |  |
| Coating Specification:                                |  |
| Surface 1: Hard Dielectric Sputtered                  |  |
| Surface 2: AR Coated                                  |  |
| Wavelength Range (nm):                                |  |
| 520 - 1300                                            |  |

|                                                      |  |
|------------------------------------------------------|--|
| 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                   |  |

## 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