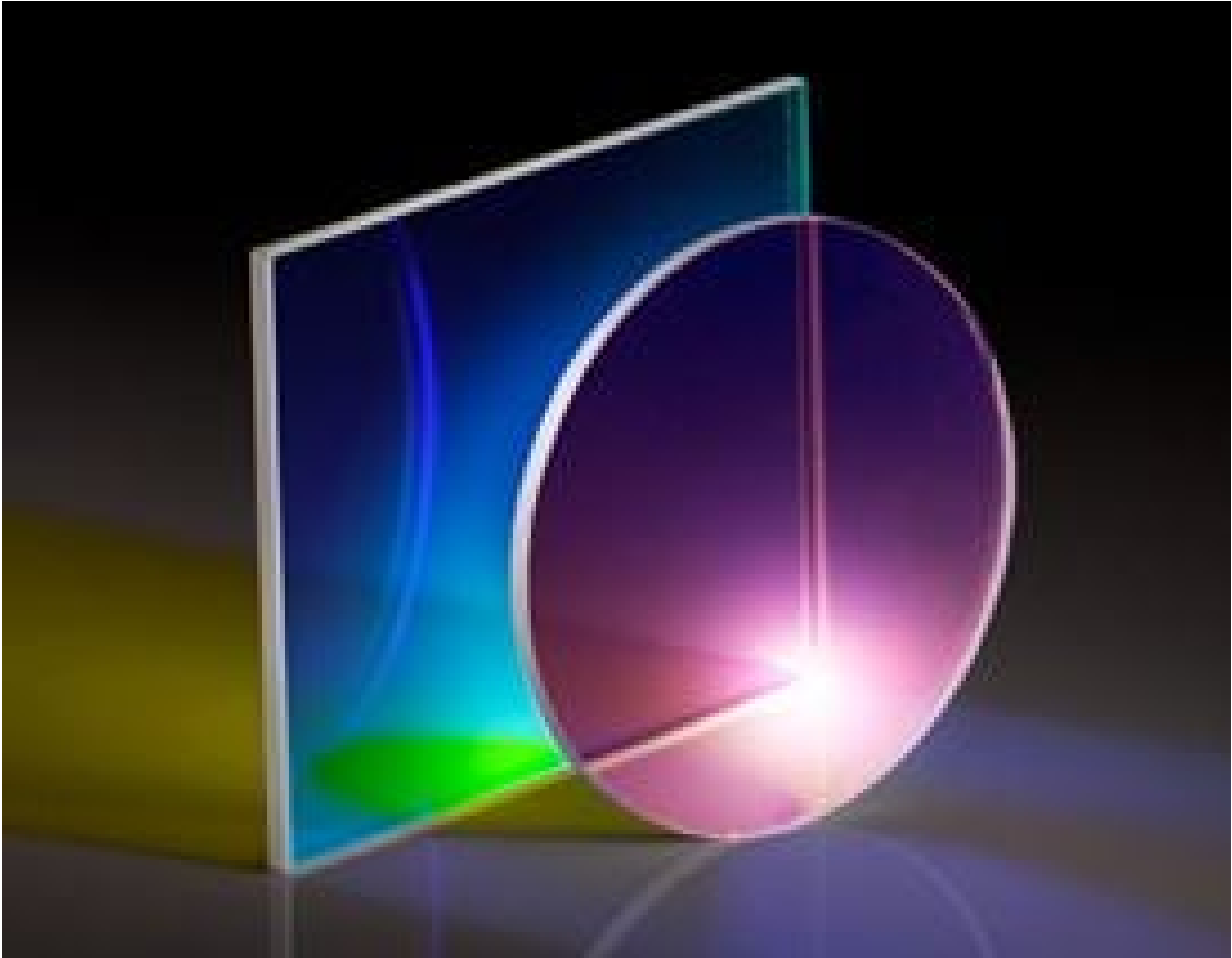


TECHSPEC[®] 450nm, 12.5mm Diameter, Dichroic Shortpass Filter



TECHSPEC Dichroic Shortpass Filters

Stock **#69-177** **1 In Stock**

-

1

+

€140⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-5	€140,00 each
Qty 6-25	€112,00 each
Qty 26-49	€106,00 each
Need More?	Request Quote

i Prices shown are exclusive of VAT/local taxes

Product Downloads

General	
Dichroic Filter	Type:
Physical & Mechanical Properties	
12.50	Diameter (mm):
	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):
450.00	
	Substrate: ☐
Fused Silica (Corning 7980)	
	Coating:
Hard Coated	
	P-Polarization Transmission (%):
>80	
	Reflection (%):
>97 Average Polarization	
	Reflection Wavelength (nm):
470 - 545	
	S-Polarization Transmission (%):
>80	
	Surface Quality:
60-40	
	Transmission (%):
>85 Average Polarization	
	Transmission Wavelength (nm):
325 - 430	
	Transmitted Wavefront, RMS:
λ/4	
	Slope Factor (%):
3.00	
	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):
325 - 545	

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	

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](#).

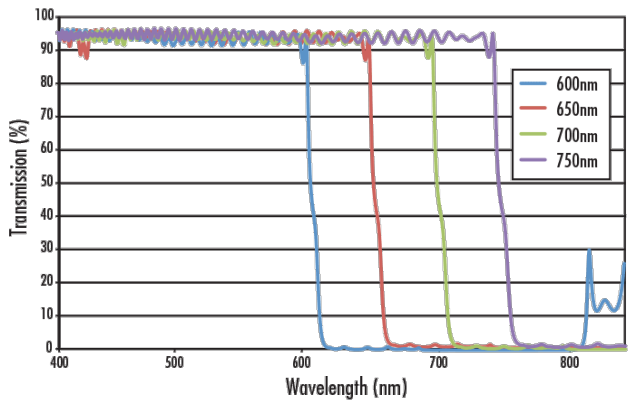
Product Details

- 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



Compatible Mounts