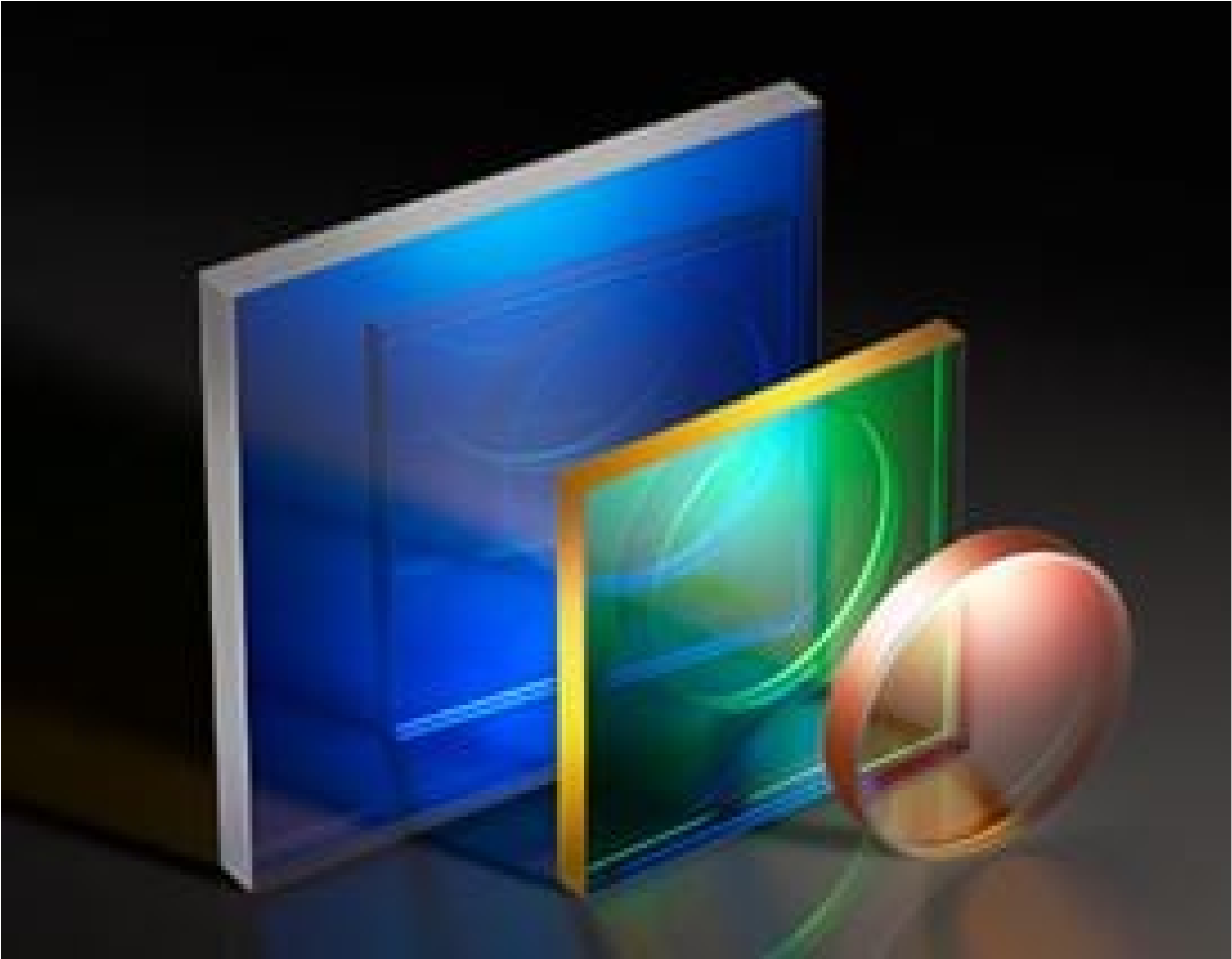


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TECHSPEC[®]

50mm Square 45°, Blue Dichroic Filter



Stock **#47-949** 20+ In Stock

-

1

+

S\$217^{.00}

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Volume Pricing	
Qty 1+	S\$217.00 each
Need More?	Request Quote

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General

Type:

Dichroic Filter

Physical & Mechanical Properties

Dimensions (mm):

50.0 x 50.0

Length (mm):

50.00

Thickness (mm):

4.00 ±0.20

Width (mm):

50.00	
Parallelism (arcmin):	<1
Dimensional Tolerance (mm):	±0.25
Clear Aperture (%):	90.00
Optical Properties	
Angle of Incidence (°):	45.00
Cut-Off Wavelength (nm):	510.00
Substrate: □	N-BK7
Coating:	Traditional Coated
Color:	Blue
Reflection (%):	R _{abs} = 50% @ 510nm R _{avg} > 98% @ 400 - 475nm
Reflection Wavelength (nm):	400 - 475
Surface Quality:	60-40
Transmission (%):	90.00
Transmission Wavelength (nm):	530 - 800
Wavelength Tolerance (nm):	±15
Coating Specification:	Surface 1: Multi-Layer Dichroic Surface 2: Single Layer MgF ₂
Wavelength Range (nm):	400 - 800
Surface Flatness (P-V):	λ/4
Regulatory Compliance	
RoHS 2015:	Compliant
Certificate of Conformance:	View
Reach 235:	Compliant

Need different specs or modifications?

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

- Reflects Stated Color While Transmitting Remaining Visible Spectrum
- Ideal for Color Separation Applications
- Precision N-BK7 Substrates

TECHSPEC® 45° Reflective Dichroic Color Filters are designed to be used at a 45° angle of incidence and will reflect the stated color while transmitting the remaining visible wavelengths. EO's Reflective Dichroics boast higher performance and a better-quality substrate than other readily available color processing filters. Each filter provides greater than 98% reflection over the specified color range and greater than 90% transmission of the remaining wavelengths. TECHSPEC 45° Reflective Dichroic Color Filters are traditionally coated and feature an N-BK7 substrate. These filters are available in circular and square sizes.

Compatible Mounts

