

**TECHSPEC® 50mm Square 45°, Blue Dichroic Filter**



Stock #47-949 **17 In Stock**

- 1 + €155.<sup>00</sup>

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Volume Pricing	
Qty 1+	€155,00 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

**General**

Dichroic Filter **Type:**

**Physical & Mechanical Properties**

50.0 x 50.0 **Dimensions (mm):**

50.00 **Length (mm):**

4.00 ±0.20 **Thickness (mm):**

50.00	<b>Width (mm):</b>
<1	<b>Parallelism (arcmin):</b>
±0.25	<b>Dimensional Tolerance (mm):</b>
90.00	<b>Clear Aperture (%):</b>
<b>Optical Properties</b>	
45.00	<b>Angle of Incidence (°):</b>
510.00	<b>Cut-Off Wavelength (nm):</b>
<b>N-BK7</b>	<b>Substrate:</b> <input type="checkbox"/>
Traditional Coated	<b>Coating:</b>
Blue	<b>Color:</b>
R <sub>abs</sub> = 50% @ 510nm R <sub>avg</sub> > 98% @ 400 - 475nm	<b>Reflection (%):</b>
400 - 475	<b>Reflection Wavelength (nm):</b>
60-40	<b>Surface Quality:</b>
90.00	<b>Transmission (%):</b>
530 - 800	<b>Transmission Wavelength (nm):</b>
±15	<b>Wavelength Tolerance (nm):</b>
Surface 1: Multi-Layer Dichroic Surface 2: Single Layer MgF <sub>2</sub>	<b>Coating Specification:</b>
400 - 800	<b>Wavelength Range (nm):</b>
λ/4	<b>Surface Flatness (P-V):</b>

<b>Regulatory Compliance</b>	
<b>Compliant</b>	<b>RoHS 2015:</b>
<b>View</b>	<b>Certificate of Conformance:</b>
<b>Compliant</b>	<b>Reach 235:</b>

## 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

