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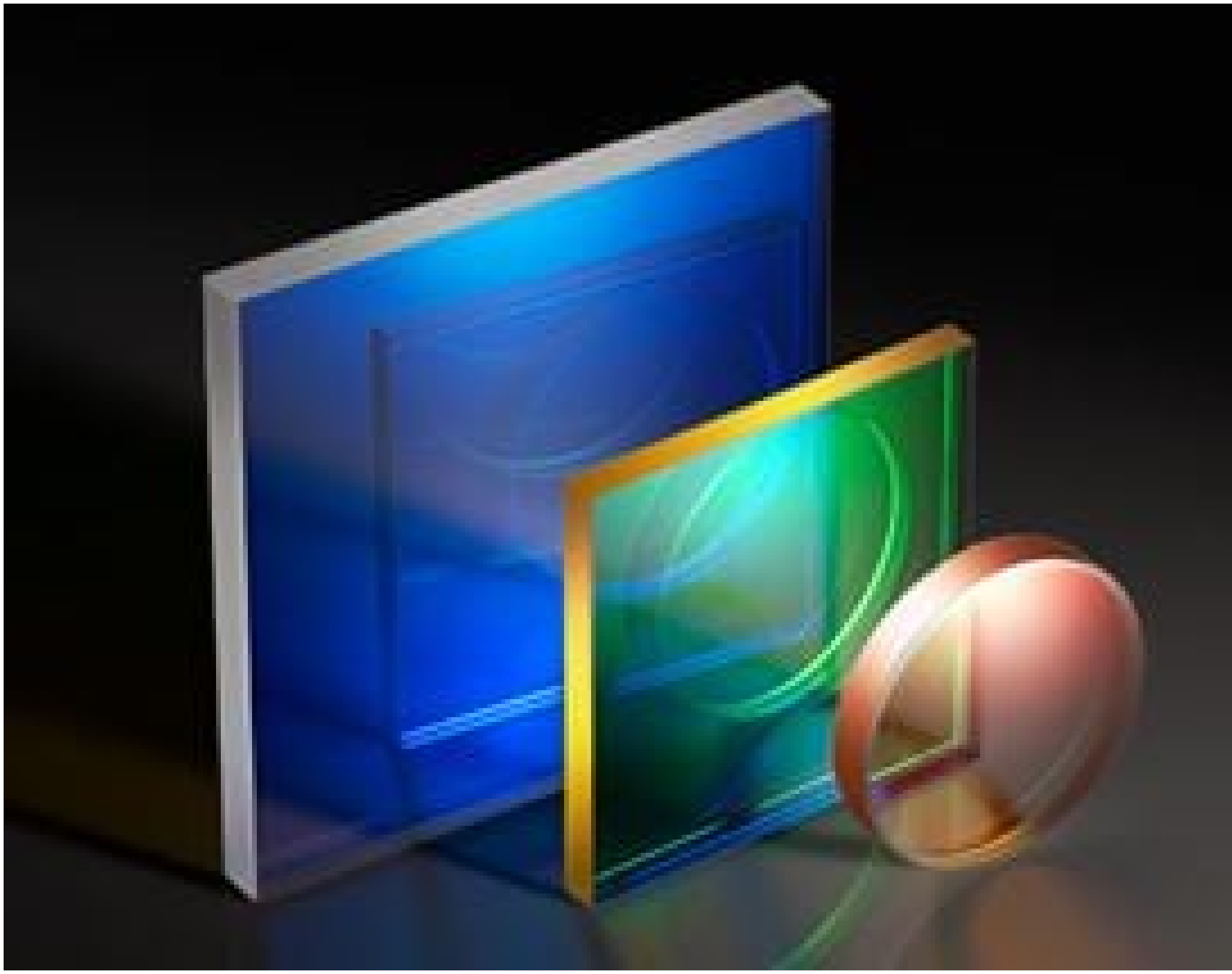
TECHSPEC® 12.5mm Diameter 45°, Red Dichroic Filter



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General

Type:

Dichroic Filter

Physical & Mechanical Properties

Diameter (mm):

12.50

Thickness (mm):

3.00 ±0.20

Parallelism (arcmin):

<1

Dimensional Tolerance (mm):

±0.25

Clear Aperture (%):

90.00

Optical Properties

Angle of Incidence (°):

45.00

Cut-On Wavelength (nm):

615.00

Substrate:

N-BK7

Coating:

Traditional Coated

Color:

Red

Reflection (%):

R_{abs} = 50% @ 615nm
R_{avg} > 98% @ 640-750nm

Reflection Wavelength (nm):

640 - 750

Surface Quality:

60-40

Transmission (%):

90.00

Transmission Wavelength (nm):

400 - 595

Wavelength Tolerance (nm):

±15

Coating Specification:

Surface 1: Multi-Layer Dichroic
Surface 2: Single Layer MgF_2

Wavelength Range (nm):

400 - 750

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® 45º 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 45º Reflective Dichroic Color Filters are traditionally coated and feature an N-BK7 substrate. These filters are available in circular and square sizes.

Compatible Mounts

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