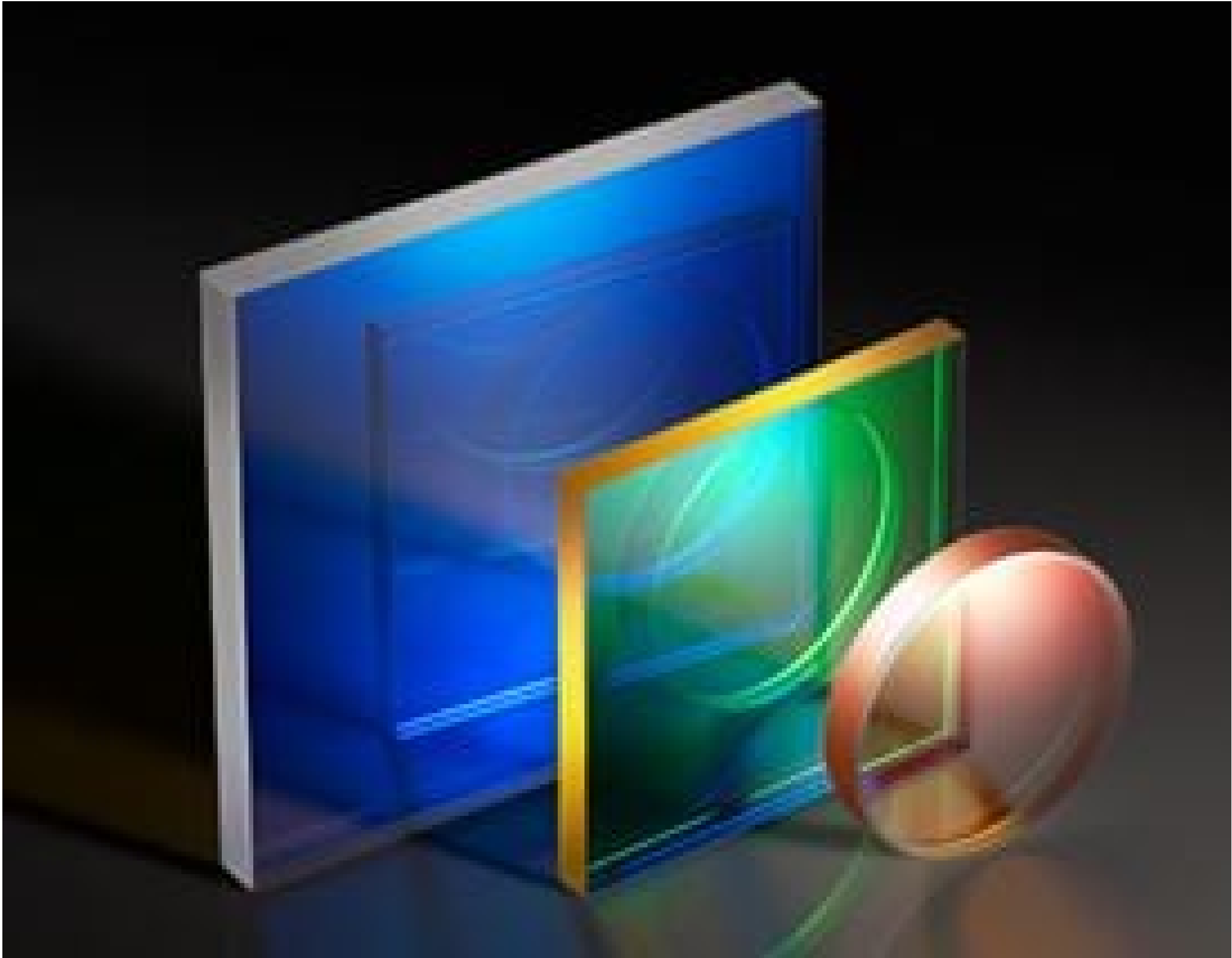


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TECHSPEC<sup>®</sup>

50mm Square 45°, Magenta Dichroic Filter



Stock **#66-253**

CONTACT US

-

1

+

€155<sup>.00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | €155,00 each                  |
| Need More?     | <a href="#">Request Quote</a> |

 Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Dichroic Filter

Type:

Physical & Mechanical Properties

50.0 x50.0

Dimensions (mm):

50.00

Length (mm):

4.00 ±0.20

Thickness (mm):

|                                                                                            |                                     |
|--------------------------------------------------------------------------------------------|-------------------------------------|
| 50.00                                                                                      | Width (mm):                         |
| <1                                                                                         | Parallelism (arcmin):               |
| ±0.25                                                                                      | Dimensional Tolerance (mm):         |
| 90.00                                                                                      | Clear Aperture (%):                 |
| Optical Properties                                                                         |                                     |
| 45.00                                                                                      | Angle of Incidence (°):             |
| 495.00                                                                                     | Cut-Off Wavelength (nm):            |
| 605.00                                                                                     | Cut-On Wavelength (nm):             |
| N-BK7                                                                                      | Substrate: <input type="checkbox"/> |
| Traditional Coated                                                                         | Coating:                            |
| Magenta                                                                                    | Color:                              |
| R <sub>abs</sub> = 50% @ 495 & 605nm<br>R <sub>avg</sub> > 98% @ 400 - 465nm & 635 - 725nm | Reflection (%):                     |
| 400 - 465 & 635 - 725                                                                      | Reflection Wavelength (nm):         |
| 60-40                                                                                      | Surface Quality:                    |
| 90.00                                                                                      | Transmission (%):                   |
| 520 - 580                                                                                  | Transmission Wavelength (nm):       |
| ±15                                                                                        | Wavelength Tolerance (nm):          |
| Surface 1: Multi-Layer Dichroic<br>Surface 2: Single Layer MgF <sub>2</sub>                | Coating Specification:              |
| 400 - 725                                                                                  | Wavelength Range (nm):              |
| λ/4                                                                                        | Surface Flatness (P-V):             |
| Regulatory Compliance                                                                      |                                     |
| Compliant                                                                                  | RoHS 2015:                          |
| View                                                                                       | Certificate of Conformance:         |
| Compliant                                                                                  | Reach 235:                          |

## 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.

## 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

