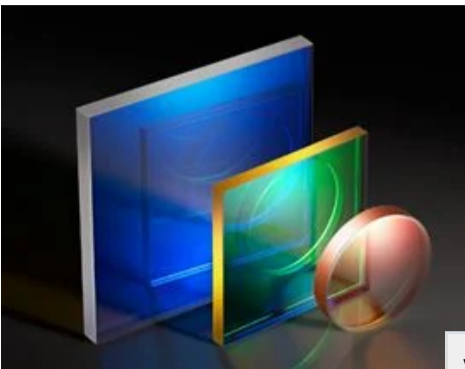


TECHSPEC® 12.5mm Diameter 45°, Blue Dichroic Filter



Stock #47-264 **20+ In Stock**

1 C\$110^{.60}

ADD TO CART

Volume Pricing	
Qty 1+	C\$110.60 each
Need More?	Request Quote

Product Downloads	
STEP:step	Curve:pdf
PDF Drawing:pdf	IGES:igs
eDrawing:eprt	
EO Spec Sheet	Download All

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-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

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.

Accessories

Note: Compatible accessories for individual stock numbers may vary. If unsure about which accessories work with your products, please contact us [here](#).

	Title	Compare	Stock Number	Price	Buy
MORE+	RGB (Red, Green, Blue) Dichroic Filter Kit (3 Filters)		#15-112	C\$350.00 Request Quote	CONTACT US 1
MORE+	CYM (Cyan, Yellow, Magenta) Dichroic Filter Kit (3 Filters)		#15-113	C\$350.00 Request Quote	CONTACT US 1

Frequently Purchased Together



#31-860 - 6mm Dia. x 6mm FL, MgF₂ Coated, Double-Convex Lens
C\$55.65

Qty



#31-861 - 6mm Dia. x 9mm FL, MgF₂ Coated, Double-Convex Lens
C\$55.65

Qty



#32-014 - 12mm Dia. x 12mm FL Uncoated, Double-Convex Lens
C\$49.00





































Qty















#32-942 - 12.5mm Dia Enhanced Aluminum, 4-6λ Mirror
C\$39.90

Qty

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
MORE+ 	12.5/12.7mm Optic Dia., SM05 Thin Mount, M4	Fixed		#13-789	C\$27.30 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	12.5/12.7mm Optic Dia., SM05 Thin Mount, 8-32	Fixed		#13-790	C\$27.30 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	12.5/12.7mm Optic Dia., E-Series Kinematic Mount	Adjustable - Tip-Tilt		#15-865	C\$60.90 Request Quote	CONTACT US <input type="text" value="1"/> 
MORE+ 	12.5/12.7mm Optic Dia., L-Slot Direct Mount	Fixed		#36-416	C\$82.60 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	12.5/12.7mm Optic Dia., Side Flange Direct Mount	Fixed		#36-418	C\$82.60 Request Quote	11 In Stock <input type="text" value="1"/> 
MORE+ 	2.0 - 35.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#03-668	C\$88.20 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	9.5 - 73.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#36-605	C\$116.20 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	12.5/12.7mm Optic Dia., Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#58-850	C\$130.20 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	12.5/12.7mm Optic Dia., L-Slot and Rotation Direct Mount	Adjustable - Rotary		#36-417	C\$135.10 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	12.5/12.7mm Optic Dia., Compact Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#34-720	C\$141.40 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	5.0 - 25.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-529	C\$142.80 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	12.5/12.7mm Optic Dia., Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#58-853	C\$145.60 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	7.0 - 40.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-676	C\$148.40 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	10.0 - 60.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-530	C\$151.20 Request Quote	CONTACT US <input type="text" value="1"/> 
MORE+ 	7.0 - 67.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-669	C\$162.40 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	12.5/12.7mm Optic Dia., Compact Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#34-721	C\$163.80 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	8.0 - 118.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-666	C\$168.00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	4.0 - 36.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-077	C\$219.80 Request Quote	5 In Stock <input type="text" value="1"/> 

	Title	Type	Compare	Stock Number	Price	Buy
MORE+ 	12.5/12.7mm Optic Dia., Stainless Steel Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#26-814	C\$225.40 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	12.5/12.7mm Optic Dia., Stainless Steel Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#26-817	C\$254.80 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	12.5/12.7mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-955	C\$365.40 Request Quote	5 In Stock <input type="text" value="1"/> 
MORE+ 	5.0 - 100.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-078	C\$574.00 Request Quote	CONTACT US <input type="text" value="1"/> 
MORE+ 	12.5/12.7mm Optic Dia., Precision Gimbal Mount	Adjustable - Gimbal		#84-640	C\$589.40 Request Quote	7 In Stock <input type="text" value="1"/> 
MORE+ 	12.5/12.7mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-958	C\$600.60 Request Quote	5 In Stock <input type="text" value="1"/> 

Check out our full selection of mounts [here](#).

Resources

Media Type

- Application Note
- Video
- Published Article
- FAQ
- Glossary
- Trending in Optics

 APPLICATION NOTE

The Importance of Optical Filter Orientation...

 APPLICATION NOTE

Custom Bandpass Filter using Shortpass an...

 VIDEO

Optical Filters Review

 VIDEO

Optical Filter Coatings: Comparison of Traditional a...

 PUBLISHED ARTICLE

Selecting Color Filter Glass for Life Science Applications

 FAQ

What type of material should I look for in a filter?

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