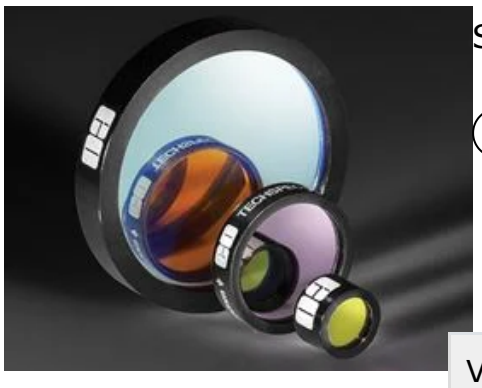
656nm CWL, 10nm FWHM, 12.5mm Mounted Diameter



Stock #65-656 2 In Stock

- 1 +

C$147.00

ADD TO CART

Volume Pricing	
Qty 1-9	C$147.00 each
Qty 10-25	C$130.20 each
Qty 26-49	C$123.20 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:	Bandpass Filter	**Typical Applications:**	H Emission Line

Physical & Mechanical Properties

Diameter (mm):	12.50 +0.0/-0.2	**Clear Aperture CA (mm):**	9.0
Construction:	Mounted in Black Anodized Ring		

Optical Properties

Angle of Incidence (°):	0	**Optical Density OD (Average):**	≥3.0
Center Wavelength CWL (nm):	656.00 ±2	**Center Wavelength CWL Tolerance (nm):**	±2
Full Width-Half Max FWHM (nm):	10.00 ±2	**Full Width-Half Max FWHM Tolerance (nm):**	±2
Minimum Transmission (%):	≥50	**Coating:**	Traditional Coated
Surface Quality:	80-50	**Blocking Wavelength Range (nm):**	200 - 1200

Threading & Mounting

Mount Thickness (mm):	7.5 ±0.1		

Environmental & Durability Factors

Operating Temperature (°C):	-50 to +75		

Regulatory Compliance

RoHS 2015:	**Compliant**	**Certificate of Conformance:**	**View**
Reach 247:	**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

- Available in UV, Visible, and IR Center Wavelengths
- 10 – 80nm Bandwidths Available
- Ideal for Biomedical Applications and Instrumentation Integration
- **193-399nm**, 400-699nm, and **700-1650nm** CWL Options Available

Traditional Coated 400 – 699nm Bandpass Interference Filters are used to selectively transmit a narrow range of wavelengths while blocking all others. These filters are ideal for a range of biomedical and quantitative chemical applications. Bandpass interference filters are widely used in instrumentation for various applications, including clinical chemistry, environmental testing, colorimetry, elemental and laser line separation, flame photometry, fluorescence, and immunoassays. In addition, Traditional Coated 400 – 699nm Bandpass Interference Filters are used to select discrete spectral lines from arc or gas discharge lamps and to isolate a particular line from Ar, Kr, Nd: YAG, and other lasers. Traditional Coated 400 – 699nm Bandpass Interference Filters are often used in conjunction with **laser diode modules** and **LED**s.

Traditional Coated Filters

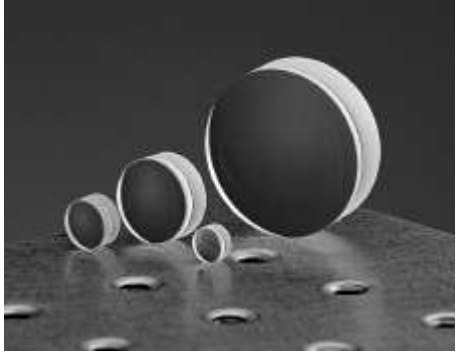
Traditional coated filters are fabricated in three sections, one of which determines the center wavelength (CWL), bandwidth (FWHM), and the shape of the transmittance curve while the other two control the blocking range of the filter. The bandpass section of Traditional Coated Bandpass Interference Filters is made by repetitive vacuum deposition of thin layers of partially reflecting dielectric compounds on a glass substrate. Rejection of wavelengths resulting from destructive interference is limited to within 15% of the central wavelength, therefore, additional glass or metallic blockers must be added to reduce out-of-band transmittance. Metallic blockers, such as layers of silver, reflect and absorb radiation outside of the filter passband and negate higher order passbands from X-ray to the long-wave infrared (LWIR). The blocking capabilities of metallic blockers are augmented by the addition of color transmitting glass and custom dyes that absorb UV or long wavelength radiation. After thin film deposition is complete, the three sections are scribed, laminated, cut, and mounted.

Technical Information

Frequently Purchased Together

#00-736 – 7.75" x 10.75" Sheets, Industrial Grade Lens Tissue
C$98.00

Qty

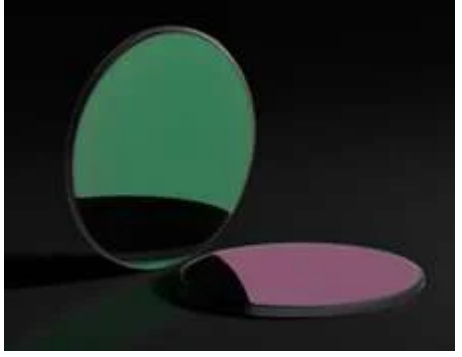


#06-386 – 10mm Dia. x 25mm FL, Grade 1, Achromatic Lens
C$29.93

Qty

#32-306 – Achromatic Lens 6.25mm Dia. x 35mm FL, Uncoated
C$17.93

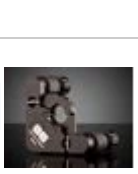
Qty



#33-146 – 10.6µm CWL, 50.0mm Diameter, 1.5 FWHM, IR Bandpass Filter
C$4,130.00

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 1
MORE+	12.5/12.7mm Optic Dia., SM05 Thin Mount, 8-32	Fixed		#13-790	C$27.30 Request Quote	20+ In Stock 1
MORE+ 	12.5/12.7mm Optic Dia., E-Series Kinematic Mount	Adjustable - Tip-Tilt		#15-865	C$60.90 Request Quote	CONTACT US 1
MORE+ 	12.5/12.7mm Optic Dia., L-Slot Direct Mount	Fixed		#36-416	C$82.60 Request Quote	20+ In Stock 1
MORE+ 	12.5/12.7mm Optic Dia., Side Flange Direct Mount	Fixed		#36-418	C$82.60 Request Quote	11 In Stock 1
MORE+ 	2.0 - 35.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#03-668	C$88.20 Request Quote	20+ In Stock 1
MORE+ 	9.5 - 73.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#36-605	C$116.20 Request Quote	20+ In Stock 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 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 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 1
MORE+	5.0 - 25.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-529	C$142.80 Request Quote	20+ In Stock 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 1
MORE+	7.0 - 40.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-676	C$148.40 Request Quote	20+ In Stock 1

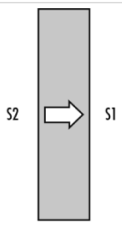
	Title	Type	Compare	Stock Number	Price ☐	Buy
MORE+ 	10.0 - 60.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-530	C$151.20 Request Quote	CONTACT US 1
MORE+ 	7.0 - 67.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-669	C$162.40 Request Quote	20+ In Stock 1
MORE+ 	12.5/12.7mm Optic Dia., Compact Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#34-721	C$163.80 Request Quote	20+ In Stock 1
MORE+ 	8.0 - 118.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-666	C$168.00 Request Quote	20+ In Stock 1
MORE+ 	4.0 - 36.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-077	C$219.80 Request Quote	5 In Stock 1
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 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 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 1
MORE+ 	12.5/12.7mm Optic Dia., Top Adjust Kinematic Mount, Lead Screw	Adjustable - Tip-Tilt		#13-768	C$378.00 Request Quote	6 In Stock 1
MORE+ 	12.5/12.7mm Optic Dia., Top Adjust Kinematic Mount, Micrometer	Adjustable - Tip-Tilt		#13-769	C$404.60 Request Quote	5 In Stock 1
MORE+ 	5.0 - 100.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-078	C$574.00 Request Quote	CONTACT US 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 1

Check out our full selection of mounts **here**.

Resources

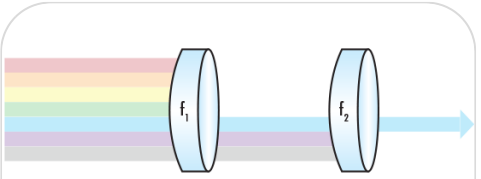
Media Type

- ☐ Application Note
- ☐ Video
- ☐ Published Article
- ☐ FAQ



APPLICATION NOTE

The Importance of Optical Filter Orientation....



APPLICATION NOTE

Custom Bandpass Filter using Shortpass an...

VIDEO

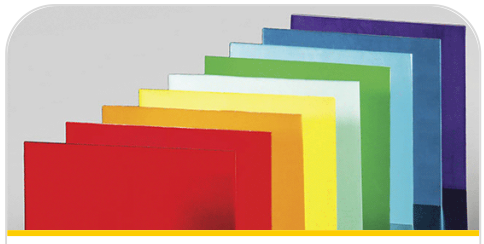
Optical Filters Review

Glossary

Trending in Optics

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?

View More

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