

577nm CWL, 10nm FWHM, 25mm Mounted Diameter



Stock #67-835 **4 In Stock**

1 C\$273⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-9	C\$273.00 each
Qty 10-25	C\$243.60 each
Qty 26-49	C\$231.00 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: Mercury Emission
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Physical & Mechanical Properties

Diameter (mm): 25.00 +0.00/-0.25	Clear Aperture CA (mm): 21.0
Construction: Mounted in Black Anodized Ring	

Optical Properties

Angle of Incidence (°): 0	Optical Density OD (Average): ≥4.0
Center Wavelength CWL (nm): 577.00 +3.0/-1.0	Center Wavelength CWL Tolerance (nm): +3.0/-1.0
Full Width-Half Max FWHM (nm): 10.00 ±2	Full Width-Half Max FWHM Tolerance (nm): ±2
Minimum Transmission (%): >55	Coating: Traditional Coated
Surface Quality: 80-50	Blocking Wavelength Range (nm): 200 - Far IR

Threading & Mounting

Mount Thickness (mm): 5.9 ±0.1	
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Environmental & Durability Factors

Operating Temperature (°C): -50 to +70

Regulatory Compliance

RoHS 2015: **Compliant**

Certificate of Conformance: [View](#)

REACH 241: **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 [LEDs](#).

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



#33-333 - 575nm CWL, 25mm Dia,
27nm Bandwidth, OD 6
Fluorescence Filter
C\$499.80



#33-907 - 585nm CWL, 25mm Dia,
36nm Bandwidth, OD 6
Fluorescence Filter
C\$499.80



















































#34-474 - 25 x 25mm White
Diffusing Glass
C\$50.40



#34-475 - 50mm Dia. White
Diffusing Glass
C\$63.35

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	25.0/25.4mm Optic Dia., SM1 Thin Mount, M4	Fixed		#13-787	C\$29.40 Request Quote	4 In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., SM1 Thin Mount, 8-32	Fixed		#13-788	C\$29.40 Request Quote	20+ In Stock <input type="text" value="1"/>
	25.0mm Optic Dia., Optic Mount	Fixed		#64-560	C\$45.85 Request Quote	CONTACT US <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., E- Series Kinematic Mount	Adjustable - Tip-Tilt		#15-866	C\$60.90 Request Quote	10 In Stock <input type="text" value="1"/>
	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"/>
	25.0/25.4mm Optic Dia., L-Slot Direct Mount	Fixed		#36-410	C\$95.20 Request Quote	20+ In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., Side Flange Direct Mount	Fixed		#36-414	C\$99.40 Request Quote	20+ In Stock <input type="text" value="1"/>
	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"/>
	25.0/25.4mm Optic Dia., Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#58-851	C\$137.90 Request Quote	20+ In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., L-Slot and Rotation Direct Mount	Adjustable - Rotary		#36-411	C\$142.80 Request Quote	5 In Stock <input type="text" value="1"/>
	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"/>
	25.0/25.4mm Optic Dia., Optical Cell Assembly	Fixed		#36-461 CLEARANCE	C\$143.93 Request Quote	2 In Stock <input type="text" value="1"/>

	Title	Type	Compare	Stock Number	Price	Buy
 	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"/> 
 	25.0/25.4mm Optic Dia., Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#58-854	C\$149.80 Request Quote	20+ In Stock <input type="text" value="1"/> 
 	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"/> 
 	19.5 - 108.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#03-670	C\$159.60 Request Quote	20+ In Stock <input type="text" value="1"/> 
 	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"/> 
 	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"/> 
 	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"/> 
 	25.0/25.4mm Optic Dia., Stainless Steel Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#26-815	C\$225.40 Request Quote	4 In Stock <input type="text" value="1"/> 
 	25.0/25.4mm Optic Dia., Stainless Steel Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#26-818	C\$254.80 Request Quote	9 In Stock <input type="text" value="1"/> 
 	25.0/25.4mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-956	C\$386.40 Request Quote	CONTACT US <input type="text" value="1"/> 
 	25.0/25.4mm Optic Dia., Kinematic Mirror Mount	Adjustable - Tip-Tilt		#55-003	C\$470.40 Request Quote	14 In Stock <input type="text" value="1"/> 
 	25.0/25.4mm Optic Dia., Kinematic Mirror Mount with Micrometer	Adjustable - Tip-Tilt		#55-456	C\$505.40 Request Quote	3 In Stock <input type="text" value="1"/> 
 	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"/> 
 	25.0/25.4mm Optic Dia., Precision Gimbal Mount	Adjustable - Gimbal		#54-999	C\$645.40 Request Quote	4 In Stock <input type="text" value="1"/> 
 	25.0/25.4mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-959	C\$756.00 Request Quote	6 In Stock <input type="text" value="1"/> 
 	25.0/25.4mm Optic Dia., 5 Axes Optical Mount	Adjustable - Linear (XYZ) & Tip-Tilt		#13-776	C\$1,057.00 Request Quote	2 In Stock <input type="text" value="1"/> 

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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