# 1600nm CWL, 12nm FWHM, 25mm Mounted Diameter

Stock #65-794 CLEARANCE 5 In Stock

- 1 +

MRP ₹17,624

Price inclusive of all taxes

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| Qty 1+ | ₹17,624 each |
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Product Downloads

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## General

| | | | |
|---|---|---|---|
| **Type:** | Bandpass Filter | **Typical Applications:** | Clinical Chemistry |

## Physical & Mechanical Properties

| | | | |
|---|---|---|---|
| **Diameter (mm):** | 25.00 +0.0/-0.2 | **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):** | 1,600.00 ±2.5 | **Center Wavelength CWL Tolerance (nm):** | ±2.5 |
| **Full Width-Half Max FWHM (nm):** | 12.00 ±2.5 | **Full Width-Half Max FWHM Tolerance (nm):** | ±2.5 |
| **Minimum Transmission (%):** | >65 | **Coating:** | Traditional Coated |
| **Surface Quality:** | 80-50 | **Blocking Wavelength Range (nm):** | 200 - 1800 |

## 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 242:** | **Compliant** | | |
| **Country of Origin:** | United States | **Imported By:** | Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91-80-6845 0000 |

## 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 700 – 1650nm 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 a variety of applications, including clinical chemistry, environmental testing, colorimetry, elemental and laser line separation, flame photometry, fluorescence, and immunoassays. In addition, Traditional Coated 700 – 1650nm 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 700 – 1650nm 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

#65-782 - 1000nm CWL, 10nm FWHM, 25mm Mounted Diameter
₹14,651
Qty

#65-724 - 800nm CWL, 10nm FWHM, 25mm Mounted Diameter
₹14,651
Qty

#65-730 - 940nm CWL, 10nm FWHM, 25mm Mounted Diameter
₹19,674
Qty

#65-699 - 520nm CWL, 10nm FWHM, 25mm Mounted Diameter
₹14,651
Qty

## Compatible Mounts

| | Title | Type | Compare | Stock Number | Price | Buy |
|---|---|---|---|---|---|---|
| MORE+ | 25.0/25.4mm Optic Dia., SM1 Thin Mount, M4 | Fixed | | #13-787 | ₹2,119 Request Quote | 2 In Stock 1 |
| MORE+ | 25.0/25.4mm Optic Dia., SM1 Thin Mount, 8-32 | Fixed | | #13-788 | ₹2,119 Request Quote | CONTACT US 1 |
| MORE+ | 25.0mm Optic Dia., Optic Mount | Fixed | | #64-560 | ₹3,305 Request Quote | CONTACT US 1 |
| MORE+ | 25.0/25.4mm Optic Dia., E-Series Kinematic Mount | Adjustable - Tip-Tilt | | #15-866 | ₹4,388 Request Quote | 10 In Stock 1 |
| MORE+ | 2.0 - 35.0mm Optic Dia., Three-Screw Adjustable Ring Mount | Fixed | | #03-668 | ₹6,357 Request Quote | 20+ In Stock 1 |
| MORE+ | 25.0/25.4mm Optic Dia., L-Slot Direct Mount | Fixed | | #36-410 | ₹6,861 Request Quote | 9 In Stock 1 |
| MORE+ | 25.0/25.4mm Optic Dia., Side Flange Direct Mount | Fixed | | #36-414 | ₹7,164 Request Quote | CONTACT US 1 |
| MORE+ | 9.5 - 73.0mm Optic Dia., Three-Screw Adjustable Ring Mount | Fixed | | #36-605 | ₹8,374 Request Quote | CONTACT US 1 |
| MORE+ | 25.0/25.4mm Optic Dia., Kinematic Mount, 2-Screws | Adjustable - Tip-Tilt | | #58-851 | ₹9,938 Request Quote | 20+ In Stock 1 |
| MORE+ | 25.0/25.4mm Optic Dia., Optical Cell Assembly | Fixed | | #36-461 CLEARANCE | ₹10,190 Request Quote | 2 In Stock 1 |
| MORE+ | 25.0/25.4mm Optic Dia., L-Slot and Rotation Direct Mount | Adjustable - Rotary | | #36-411 | ₹10,291 Request Quote | CONTACT US 1 |
| MORE+ | 5.0 - 25.0mm Optic Height, Metric Bar-Type Optic Holder | Fixed | | #55-529 | ₹10,291 Request Quote | 20+ In Stock 1 |
| MORE+ | 7.0 - 40.0 Optic Height, English Bar-Type Optic Holder | Fixed | | #03-676 | ₹10,694 Request Quote | 2 In Stock 1 |

| | Title | Type | Compare | Stock Number | Price | Buy |
|---|---|---|---|---|---|---|
| MORE+ | 25.0/25.4mm Optic Dia., Kinematic Mount, 3-Screws | Adjustable - Tip-Tilt | | #58-854 | ₹10,796 Request Quote | 20+ In Stock 1 |
| MORE+ | 10.0 - 60.0mm Optic Height, Metric Bar-Type Optic Holder | Fixed | | #55-530 | ₹10,896 Request Quote | CONTACT US 1 |
| MORE+ | 19.5 - 108.0mm Optic Dia., Three-Screw Adjustable Ring Mount | Fixed | | #03-670 | ₹11,501 Request Quote | 1 In Stock 1 |
| MORE+ | 7.0 - 67.0 Optic Height, English Bar-Type Optic Holder | Fixed | | #03-669 | ₹11,703 Request Quote | 6 In Stock 1 |
| MORE+ | 8.0 - 118.0 Optic Height, English Bar-Type Optic Holder | Fixed | | #03-666 | ₹12,107 Request Quote | 10 In Stock 1 |
| MORE+ | 4.0 - 36.0mm Optic Dia., Self-Centering Jaw Clamp | Fixed | | #16-077 | ₹15,840 Request Quote | 6 In Stock 1 |
| MORE+ | 25.0/25.4mm Optic Dia., Stainless Steel Kinematic Mount, 2-Screws | Adjustable - Tip-Tilt | | #26-815 | ₹16,244 Request Quote | 4 In Stock 1 |
| MORE+ | 25.0/25.4mm Optic Dia., Stainless Steel Kinematic Mount, 3-Screws | Adjustable - Tip-Tilt | | #26-818 | ₹18,362 Request Quote | 9 In Stock 1 |
| MORE+ | 25.0/25.4mm Optic Dia., X-Y Translating Optic Mount | Adjustable - Linear (XY) | | #62-956 | ₹27,846 Request Quote | CONTACT US 1 |
| MORE+ | 25.0/25.4mm Optic Dia., Kinematic Mirror Mount | Adjustable - Tip-Tilt | | #55-003 | ₹33,899 Request Quote | 14 In Stock 1 |
| MORE+ | 25.0/25.4mm Optic Dia., Kinematic Mirror Mount with Micrometer | Adjustable - Tip-Tilt | | #55-456 | ₹36,422 Request Quote | 3 In Stock 1 |
| MORE+ | 5.0 - 100.0mm Optic Dia., Self-Centering Jaw Clamp | Fixed | | #16-078 | ₹41,365 Request Quote | CONTACT US 1 |
| MORE+ | 25.0/25.4mm Optic Dia., X-Y-Z Translating Optic Mount | Adjustable - Linear (XYZ) | | #62-959 | ₹54,481 Request Quote | 6 In Stock 1 |
| MORE+ | 25.0/25.4mm Optic Dia., 5 Axes Optical Mount | Adjustable - Linear (XYZ) & Tip-Tilt | | #13-776 | ₹76,173 Request Quote | 2 In Stock 1 |

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

# Resources

**Media Type**

- [ ] Application Note
- [ ] Glossary
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- [ ] Trending in Optics

APPLICATION NOTE
The Importance of Optical Filter Orientation....

APPLICATION NOTE
The Correct Material for Infrared (IR) Applications

GLOSSARY
Infrared (IR) Spectrum

APPLICATION NOTE
UV vs. IR Grade Fused Silica

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