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TECHSPEC® 589nm CWL, 12.5mm Dia., Hard Coated OD 4.0 10nm Bandpass Filter



TECHSPEC Hard Coated OD 4.0 10nm Bandpass Filters

Stock **#65-101** **20+ In Stock**

[Additional Bandwidths](#)

⊖ 1 ⊕ MRP ₹18,766

● Price inclusive of all taxes

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Volume Pricing	
Qty 1-5	₹18,766 each
Qty 6-25	₹15,033 each
Qty 26-49	₹14,074 each
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Product Downloads

General

Bandpass Filter **Type:**

Typical Applications:
Bodipy TR Ceramide, Calcium Crimson, Calcium Orange, mPlum

Physical & Mechanical Properties

12.50 +0.0/-0.1 **Diameter (mm):**

8.5 **Clear Aperture CA (mm):**

Mounted in Black Anodized Ring **Construction:**

Physical Durability:
Adhesion per MIL-PRF-13830B, Section C.4.5.12
Moderate abrasion per MIL-PRF-13830B, Section C.4.5.11
Cleaning per MIL-C-48497A Section 4.5.4.2

3.5 ±0.5 typical **Substrate Thickness (mm):**

Optical Properties

0 **Angle of Incidence (°):**

≥4.0 **Optical Density OD (Average):**

589.00 ±2.0 **Center Wavelength CWL (nm):**

10.00 ±2.0 **Full Width-Half Max FWHM (nm):**

±2.0 **Full Width-Half Max FWHM Tolerance (nm):**

Optical Glass **Substrate:**

≥85 **Minimum Transmission (%):**

Hard Coated **Coating:**

80-50 **Surface Quality:**

200 - 1200 **Blocking Wavelength Range (nm):**

Threading & Mounting

5.0 ±0.1 **Mount Thickness (mm):**

Environmental & Durability Factors

Environmental Durability:
Humidity per ML-STD-810H, Section 507.6
Temperature per ML-STD-810H, Section 501.7 and 502.7

Regulatory Compliance

Compliant **RoHS 2015:**

View **Certificate of Conformance:**

Compliant **Reach 233:**

United States **Country of Origin:**

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

- Ideal for Life Sciences or Chemical Analysis

- Available in UV, VIS, and IR Center Wavelengths
- Feature High Performance Hard Coatings
- Hard Coated OD 4.0 **5nm**, **25nm**, and **50nm** Bandpass Filters Also Available

TECHSPEC® Hard Coated OD 4.0 10nm Bandpass Filters are narrowband filters used extensively in applications including flame photometry, elemental or laser line separation, fluorescence, laser diode cleanup, or chemical detection or analysis. These optical filters offer steep slopes with deep blocking to achieve high performance in demanding applications. TECHSPEC Hard Coated OD 4.0 10nm Bandpass Filters feature durable hard coatings to minimize filter degradation while increasing transmission. The bandpass filters are available in UV, VIS, and IR center wavelengths.

Note: These filters are optimized for high spectral performance rather than high Laser Induced Damage Thresholds (LIDT). A typical LIDT for these filters is 1 J/cm² @ 532nm, 10ns. Please [contact us](#) if you require a filter with a higher LIDT value.

Technical Information



Compatible Mounts