

**TECHSPEC® 550nm CWL, 12.5mm Dia. Hard Coated OD 4.0 50nm Bandpass Filter**



Stock **#84-772** **20+ In Stock**

[Additional Bandwidths](#)

- 1 + MRP ₹18,665

**i** Price inclusive of all taxes

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Volume Pricing	
Qty 1-5	₹18,665 each
Qty 6-25	₹14,932 each
Qty 26-49	₹14,000 each
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Product Downloads

**General**

Bandpass Filter **Type:**

**Typical Applications:**  
HiLyte Fluor 555, Magnesium Orange, Acridine Yellow

532nm Laser **Typical Light Sources:**

## Physical & Mechanical Properties

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

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

Mounted in Black Anodized Ring **Construction:**

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

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

## Optical Properties

0 **Angle of Incidence (°):**

45 **Bandwidth (nm):**

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

550.00 **Center Wavelength CWL (nm):**

50.00 **Full Width-Half Max FWHM (nm):**

Optical Glass **Substrate:** □

≥90 **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

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

## Regulatory Compliance

Compliant **RoHS 2015:**

View **Certificate of Conformance:**

Compliant **REACH 241:**

United States **Country of Origin:**

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 **Imported By:**

## 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](#).

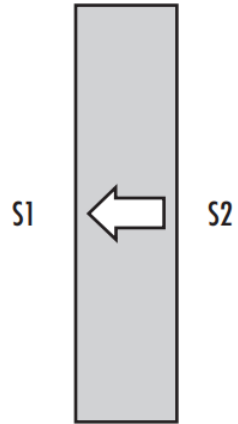
## Product Details

- High Transmission, Deep Blocking
- Broad Bandwidths Ideal for Imaging Applications
- Available in VIS and IR Center Wavelengths
- **Hard Coated OD 4.0 10nm** and **25nm** Bandpass Filters Also Available

TECHSPEC® Hard Coated OD 4.0 50nm Bandpass Filters are ideal for imaging applications, including machine vision inspection, fluorescence microscopy, and a variety of biotech instrumentation. These bandpass filters eliminate unwanted background noise and enhance the signal-to-noise ratio within imaging applications. Unlike traditional filters, these hard coated filters are fabricated using only a single substrate. TECHSPEC® Hard Coated OD 4.0 50nm Bandpass Filters offer deeper blocking, higher transmission, and steeper slopes than traditional coated filters. Hard Coated OD 4.0 **10nm** and **25nm** are also available.

**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/cm<sup>2</sup> @ 532nm, 10ns. Please [contact us](#) if you require a filter with a higher LIDT value.

## Technical Information



All mounted TECHSPEC® Optical Filters have an arrow on the side of the mount that points to the filter-coated surface for quick reference. Filter oriented such that arrow points to filter coated surface S1. Anti-reflective (AR) coating is applied to S2.

## Compatible Mounts

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