

TECHSPEC[®] 500nm CWL, 12.5mm Dia. Hard Coated OD 4.0 50nm Bandpass Filter



Stock **#84-771** 20+ In Stock

[Additional Bandwidths](#)

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1

+

A\$296⁰⁰

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Volume Pricing	
Qty 1-5	A\$296.00 each
Qty 6-25	A\$236.80 each
Qty 26-49	A\$222.00 each
Need More?	Request Quote

Product Downloads

General	
Bandpass Filter	Type:
Typical Applications: BD Horizon V500, DiO, PKH67, Acridine Orange, ATTO488, ratiometric pHLuorin pH5	
Typical Light Sources: 475 and 488nm Laser; 520nm LED	

Physical & Mechanical Properties	
12.50 +0.0/-0.1	Diameter (mm):
8.5	Clear Aperture CA (mm):
Mounted in Black Anodized Ring	
Physical Durability: 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	
3.5 ±0.5	Substrate Thickness (mm):
Optical Properties	
0	Angle of Incidence (°):
45	Bandwidth (nm):
≥4.0	Optical Density OD (Average):
500.00	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	
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 247:

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/cm² @ 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.

Custom

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](#).

Compatible Mounts
