

TECHSPEC[®] 975nm CWL, 12.5mm Dia. Hard Coated OD 4.0 50nm Bandpass Filter



Stock **#86-948** 20+ In Stock

[Additional Bandwidths](#)

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1

+

C\$287⁰⁰

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Volume Pricing	
Qty 1-5	C\$287.00 each
Qty 6-25	C\$229.60 each
Qty 26-49	C\$215.25 each
Need More?	Request Quote

Product Downloads

General	
Bandpass Filter	Type:
Physical & Mechanical Properties	
12.50 +0.0/-0.1	Diameter (mm):
8.5	Clear Aperture CA (mm):

Construction:	
Mounted in Black Anodized Ring	
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 ML-C-48497A Section 4.5.4.2	

Substrate Thickness (mm):	
3.5 ±0.5	

Optical Properties

Angle of Incidence (°):	
0	

Bandwidth (nm):	
45	

Optical Density OD (Average):	
≥4.0	

Center Wavelength CWL (nm):	
975.00	

Full Width-Half Max FWHM (nm):	
50.00	

Substrate: ☐	
Optical Glass	

Minimum Transmission (%):	
≥90	

Coating:	
Hard Coated	

Surface Quality:	
80-50	

Blocking Wavelength Range (nm):	
200 - 1200	

Threading & Mounting

Mount Thickness (mm):	
5.0 ±0.1	

Environmental & Durability Factors

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

Regulatory Compliance

RoHS 2015:	
Compliant	

Certificate of Conformance:	
View	

Reach 247:	
Compliant	

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](#).

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.

Compatible Mounts

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