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TECHSPEC[®] 700nm CWL, 50mm Dia. Hard Coated OD 4.0 50nm Bandpass Filter



Stock **#84-799** **9 In Stock**

[Additional Bandwidths](#)

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1

+

C\$924^{.00}

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Volume Pricing	
Qty 1-5	C\$924.00 each
Qty 6-25	C\$739.20 each
Qty 26-49	C\$693.00 each
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Product Downloads

General

Type:

Bandpass Filter

Typical Applications:

ATTO 680 Emission

Typical Light Sources:

Broadband Illumination Source

Physical & Mechanical Properties

50.00 +0.0/-0.1	Diameter (mm):
45.0	Clear Aperture CA (mm):
Mounted in Black Anodized Ring	Construction:
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	Physical Durability:

3.5 ±0.5	Substrate Thickness (mm):
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Optical Properties

0	Angle of Incidence (°):
45	Bandwidth (nm):

≥4.0	Optical Density OD (Average):
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700.00	Center Wavelength CWL (nm):
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50.00	Full Width-Half Max FWHM (nm):
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Optical Glass	Substrate: ☐
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≥90	Minimum Transmission (%):
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Hard Coated	Coating:
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80-50	Surface Quality:
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200 - 1200	Blocking Wavelength Range (nm):
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Threading & Mounting

5.0 ±0.1	Mount Thickness (mm):
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Environmental & Durability Factors

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

Compliant	RoHS 2015:
View	Certificate of Conformance:

Compliant	Reach 247:
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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](#).

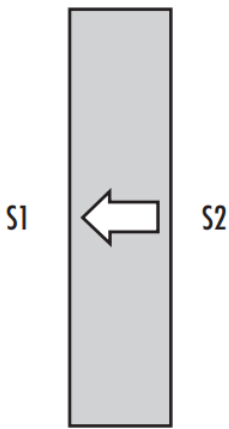
Product Details

- 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). Atypical 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