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TECHSPEC[®] 850nm CWL, 50mm Dia. Hard Coated OD 4.0 50nm Bandpass Filter



Stock **#84-802** 7 In Stock

[Additional Bandwidths](#)

-

1

+

₹50,135

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Volume Pricing	
Qty 1-5	₹50,135 each
Qty 6-25	₹39,548 each
Qty 26-49	₹36,590 each
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General

Type:

Bandpass Filter

Typical Applications:

ICG, IReDye800RS, Alexa Fluor® 790

Typical Light Sources:

830nm Laser

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):
Optical Properties	
0	Angle of Incidence (°):
45	Bandwidth (nm):
≥4.0	Optical Density OD (Average):
850.00	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 MIL-STD-810H, Section 507.6 Temperature per MIL-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	Imported By:

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

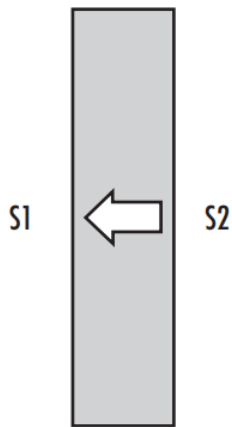
- High Transmission, Deep Blocking
- Broad Bandwidths Ideal for Imaging Applications
- Available in VIS and IR Center Wavelengths
- [Hard Coated OD 4.0 10nm](#) and [25nm](#) Bandpass Filters Also Available

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