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TECHSPEC[®] 650nm CWL, 50mm Dia. Hard Coated OD 4.0 50nm Bandpass Filter



Stock **#84-798** [CONTACT US](#)

[Additional Bandwidths](#)

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+

A\$1,056^{.00}

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Volume Pricing	
Qty 1-5	A\$1,056.00 each
Qty 6-25	A\$844.80 each
Qty 26-49	A\$792.00 each
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Product Downloads

General	
Type:	
Bandpass Filter	
Typical Applications:	
Alexa Fluor® 647, SpectrumFRed, SYTO 60, ChlorophyllA	
Typical Light Sources:	
635-670nm Laser; 660nm LED	

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 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):
650.00	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:

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

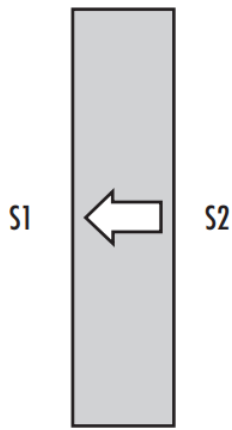
- High Transmission, Deep Blocking
- Broad Bandwidths Ideal for Imaging Applications
- Available in VIS and IR Center Wavelengths
- [Hard Coated OD 4.0 10nm](#) and [25nm](#) Bandpass Filters Also Available

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