

**TECHSPEC® 675nm CWL, 50mm Dia. Hard Coated OD 4.0 50nm Bandpass Filter**



Stock **#86-966** **8 In Stock**

[Additional Bandwidths](#)

⊖ 1 ⊕ A\$1,056<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-5	A\$1,056.00 each
Qty 6-25	A\$844.80 each
Qty 26-49	A\$792.00 each
Need More?	<a href="#">Request Quote</a>

Product Downloads

**SPECIFICATIONS**

**General**

Bandpass Filter

Type:

Typical Applications:

## Physical & Mechanical Properties

**Diameter (mm):**  
50.00 +0.0/-0.1

**Clear Aperture CA (mm):**  
45.0

**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 MIL-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):**  
675.00

**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 241:**  
[Compliant](#)

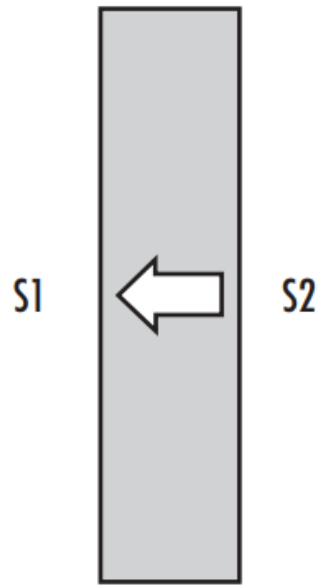
## PRODUCT DETAILS

- 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/cm<sup>2</sup> @ 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

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