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**TECHSPEC® 300nm CWL, 50 Dia. Hard Coated OD 4.0 25nm Bandpass Filter**



Stock **#12-084** **1 In Stock**

[Additional Bandwidths](#)

⊖ 1 ⊕ **\$879<sup>00</sup>**

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Volume Pricing	
Qty 1-5	<b>\$879.20</b> each
Qty 6-25	<b>\$702.80</b> each
Qty 26-49	<b>\$659.40</b> each
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**General**

Bandpass Filter **Type:**

**Physical & Mechanical Properties**

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

45.0 **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 MIL-C-48497A Section 4.5.4.2

**Substrate Thickness (mm):**  
3.0 ±0.2

## Optical Properties

**Angle of Incidence (°):**  
0

**Bandwidth (nm):**  
20

**Optical Density OD (Average):**  
≥4.0

**Center Wavelength CWL (nm):**  
300.00

**Center Wavelength CWL Tolerance (nm):**  
±3

**Full Width-Half Max FWHM (nm):**  
25.00

**Full Width-Half Max FWHM Tolerance (nm):**  
±3

**Substrate:**   
Fused Silica

**Minimum Transmission (%):**  
≥70

**Coating:**  
Hard Coated

**Surface Quality:**  
80-50

**Blocking Wavelength Range (nm):**  
200 - 650

## 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**

## Need different specs or modifications?

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

- Ideal for Life Science Instrumentation
- High Transmission, Deep Blocking
- Used to Prevent Photobleaching in Microscopy Applications
- Hard Coated OD 4.0 **5nm**, **10nm** and **50nm** Bandpass Filters also Available

TECHSPEC® Hard Coated OD 4.0 25nm Bandpass Filters are designed to be a midrange alternative to broadband or narrowband filters. These filters are ideal for fluorescence microscopy or other life science applications that rely on fluorescence detection such as flow cytometry or qPCR. TECHSPEC® Hard Coated OD 4.0 25nm Bandpass Filters can also be used to eliminate unwanted background noise while enhancing the signal-to-noise ratio in imaging or machine vision applications. The filters are designed to have a 0° angle of incidence and are mounted in a black anodized ring. Hard Coated OD 4.0 **5nm**, **10nm**, and **50nm** bandpass filters 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/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.

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