

TECHSPEC<sup>®</sup> 400nm CWL, 12.5mm Dia. Hard Coated OD 4.0 50nm Bandpass Filter



Stock **#84-769** **17 In Stock**

[Additional Bandwidths](#)

-

1

+

C\$259<sup>00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | C\$259.00 each                |
| Qty 6-25       | C\$207.20 each                |
| Qty 26-49      | C\$194.25 each                |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

| General                                                                                                   |  |
|-----------------------------------------------------------------------------------------------------------|--|
| Type:                                                                                                     |  |
| Bandpass Filter                                                                                           |  |
| Typical Applications:                                                                                     |  |
| 7-Dimethylamino-4-Methylcoumarin-3-Isothiocyanate, CellTrace calcein violet, Pacific Blue, Pacific Orange |  |
| Typical Light Sources:                                                                                    |  |
| 405nm Diode; 395nm LED                                                                                    |  |

| Physical & Mechanical Properties                                                                                                                     |                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 12.50 +0.0/-0.1                                                                                                                                      | Diameter (mm):                      |
| 8.5                                                                                                                                                  | Clear Aperture CA (mm):             |
| Mounted in Black Anodized Ring                                                                                                                       | Construction:                       |
| Adhesion per MIL-PRF-13830B, Section C.4.5.12<br>Moderate abrasion per MIL-PRF-13830B, Section C.4.5.11<br>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):       |
| 400.00                                                                                                                                               | Center Wavelength CWL (nm):         |
| 50.00                                                                                                                                                | Full Width-Half Max FWHM (nm):      |
| Optical Glass                                                                                                                                        | Substrate: <input type="checkbox"/> |
| ≥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<br>Temperature per MIL-STD-810H, Section 501.7 and 502.7 | Environmental Durability: |

| Regulatory Compliance |                             |
|-----------------------|-----------------------------|
| Compliant             | RoHS 2015:                  |
| View                  | Certificate of Conformance: |
| Compliant             | Reach 247:                  |

## 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