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TECHSPEC<sup>®</sup> 500nm CWL, 25mm Dia. Hard Coated OD 4.0 50nm Bandpass Filter



Stock **#84-783** 20+ In Stock

[Additional Bandwidths](#)

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1

+

S\$392<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | S\$392.00 each                |
| Qty 6-25       | S\$313.60 each                |
| Qty 26-49      | S\$294.00 each                |
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Product Downloads

| General                                                                                                  |       |
|----------------------------------------------------------------------------------------------------------|-------|
| Bandpass Filter                                                                                          | Type: |
| Typical Applications:<br>BD Horizon V500, DiO, PKH67, Acridine Orange, ATTO488, ratiometric pHluorin pH6 |       |
| Typical Light Sources:<br>475 and 488nm Laser; 520nm LED                                                 |       |
|                                                                                                          |       |
|                                                                                                          |       |

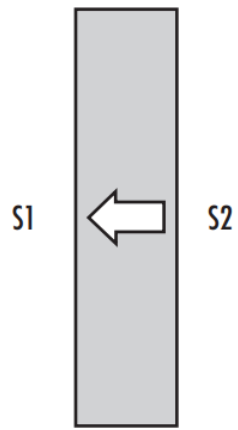
| Physical & Mechanical Properties                                                                                                                                          |                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 25.00 +0.0/-0.1                                                                                                                                                           | Diameter (mm):                      |
| 21.0                                                                                                                                                                      | Clear Aperture CA (mm):             |
| Construction:                                                                                                                                                             |                                     |
| Mounted in Black Anodized Ring                                                                                                                                            |                                     |
| Physical Durability:<br>Adhesion per ML-PRF-13830B, Section C.4.5.12<br>Moderate abrasion per ML-PRF-13830B, Section C.4.5.11<br>Cleaning per ML-C-48497A Section 4.5.4.2 |                                     |
| 3.5 ±0.5                                                                                                                                                                  | Substrate Thickness (mm):           |
| Optical Properties                                                                                                                                                        |                                     |
| 0                                                                                                                                                                         | Angle of Incidence (°):             |
| 45                                                                                                                                                                        | Bandwidth (nm):                     |
| ≥4.0                                                                                                                                                                      | Optical Density OD (Average):       |
| 500.00                                                                                                                                                                    | 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                                                                                           |                             |
| Environmental Durability:<br>Humidity per ML-STD-810H, Section 507.6<br>Temperature per ML-STD-810H, Section 501.7 and 502.7 |                             |
| Regulatory Compliance                                                                                                        |                             |
| Compliant                                                                                                                    | RoHS 2015:                  |
| View                                                                                                                         | Certificate of Conformance: |
| Compliant                                                                                                                    | REACH 241:                  |

## 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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