

TECHSPEC<sup>®</sup> 450nm CWL, 25mm Dia. Hard Coated OD 4.0 50nm Bandpass Filter



Stock **#84-782** 20+ In Stock

[Additional Bandwidths](#)

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+

£224<sup>.00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | £224.00 each                  |
| Qty 6-25       | £179.20 each                  |
| Qty 26-49      | £168.00 each                  |
| Need More?     | <a href="#">Request Quote</a> |

Prices shown are exclusive of VAT/local taxes

Product Downloads

| General                |  |
|------------------------|--|
| Type:                  |  |
| Bandpass Filter        |  |
| Typical Applications:  |  |
| StarLight Glacial Blue |  |
| Typical Light Sources: |  |
| 445nm Diode; 470nm LED |  |

| Physical & Mechanical Properties                                                                                                                  |                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 25.00 +0.0/-0.1                                                                                                                                   | Diameter (mm):                      |
| 21.0                                                                                                                                              | Clear Aperture CA (mm):             |
| Mounted in Black Anodized Ring                                                                                                                    | Construction:                       |
| 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 | Physical Durability:                |
| 3.5 ±0.5                                                                                                                                          | Substrate Thickness (mm):           |
| Optical Properties                                                                                                                                |                                     |
| 0                                                                                                                                                 | Angle of Incidence (°):             |
| 45                                                                                                                                                | Bandwidth (nm):                     |
| ≥4.0                                                                                                                                              | Optical Density OD (Average):       |
| 450.00                                                                                                                                            | 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 ML-STD-810H, Section 507.6<br>Temperature per ML-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). 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.*

## 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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