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TECHSPEC<sup>®</sup> 650nm CWL, 25mm Dia. Hard Coated OD 4.0 50nm Bandpass Filter



Stock **#84-786** [CONTACT US](#)

[Additional Bandwidths](#)

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1

+

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

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | C\$392.00 each                |
| Qty 6-25       | C\$313.60 each                |
| Qty 26-49      | C\$294.00 each                |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

| General                                                                        |       |
|--------------------------------------------------------------------------------|-------|
| Bandpass Filter                                                                | Type: |
| Typical Applications:<br>Alexa Fluor® 647, SpectrumFRed, SYTO 60, ChlorophyllA |       |
| Typical Light Sources:<br>635-670nm Laser; 660nm 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:                                  |                                     |
| Adhesion per ML-PRF-13830B, Section C.4.5.12          |                                     |
| Moderate abrasion per ML-PRF-13830B, Section C.4.5.11 |                                     |
| 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):       |
| 650.00                                                | 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:                            |  |
| Humidity per ML-STD-810H, Section 507.6              |  |
| 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