

TECHSPEC<sup>®</sup> 950nm CWL, 25mm Dia. Hard Coated OD 4.0 50nm Bandpass Filter



Stock **#84-792** 20+ In Stock

☐ [Additional Bandwidths](#)

-

1

+

€284<sup>.28</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | €284,28 each                  |
| Qty 6-25       | €222,48 each                  |
| Qty 26-49      | €210,12 each                  |
| Need More?     | <a href="#">Request Quote</a> |

Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Bandpass Filter

Type:

|                                                         |                                                                                                                                                      |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Typical Light Sources:<br>Broadband Illumination Source |                                                                                                                                                      |
| Physical & Mechanical Properties                        |                                                                                                                                                      |
| Diameter (mm):                                          | 25.00 +0.0/-0.1                                                                                                                                      |
| Clear Aperture CA (mm):                                 | 21.0                                                                                                                                                 |
| Construction:                                           | Mounted in Black Anodized Ring                                                                                                                       |
| Physical Durability:                                    | 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 |
| Substrate Thickness (mm):                               | 3.5 ±0.5                                                                                                                                             |
| Optical Properties                                      |                                                                                                                                                      |
| Angle of Incidence (°):                                 | 0                                                                                                                                                    |
| Bandwidth (nm):                                         | 45                                                                                                                                                   |
| Optical Density OD (Average):                           | ≥4.0                                                                                                                                                 |
| Center Wavelength CWL (nm):                             | 950.00                                                                                                                                               |
| Full Width-Half Max FWHM (nm):                          | 50.00                                                                                                                                                |
| Substrate: <input type="checkbox"/>                     | Optical Glass                                                                                                                                        |
| Minimum Transmission (%):                               | ≥90                                                                                                                                                  |
| Coating:                                                | Hard Coated                                                                                                                                          |
| Surface Quality:                                        | 80-50                                                                                                                                                |
| Blocking Wavelength Range (nm):                         | 200 - 1200                                                                                                                                           |
| Threading & Mounting                                    |                                                                                                                                                      |
| Mount Thickness (mm):                                   | 5.0 ±0.1                                                                                                                                             |
| Environmental & Durability Factors                      |                                                                                                                                                      |
| Environmental Durability:                               | Humidity per MIL-STD-810H, Section 507.6<br>Temperature per MIL-STD-810H, Section 501.7 and 502.7                                                    |
| Regulatory Compliance                                   |                                                                                                                                                      |
| RoHS 2015:                                              | Compliant                                                                                                                                            |
| Certificate of Conformance:                             | View                                                                                                                                                 |
| Reach 247:                                              | Compliant                                                                                                                                            |

## 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