

TECHSPEC<sup>®</sup> 1225nm CWL, 25mm Dia. Hard Coated OD 4.0 50nm Bandpass Filter



Stock **#87-864** **1 In Stock**

☐ [Additional Bandwidths](#)

-

1

+

€347<sup>11</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | €347,11 each                  |
| Qty 6-25       | €311,06 each                  |
| Qty 26-49      | €295,61 each                  |
| Need More?     | <a href="#">Request Quote</a> |

Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Bandpass Filter

Type:

| 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 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):   |
| 1,225.00                                                                                                                                             | Center Wavelength CWL (nm):     |
| 50.00                                                                                                                                                | Full Width-Half Max FWHM (nm):  |
| Optical Glass                                                                                                                                        | Substrate: <input type="text"/> |
| >90                                                                                                                                                  | Minimum Transmission (%):       |
| Hard Coated                                                                                                                                          | Coating:                        |
| 80-50                                                                                                                                                | Surface Quality:                |
| 200 - 1800                                                                                                                                           | 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:                      |

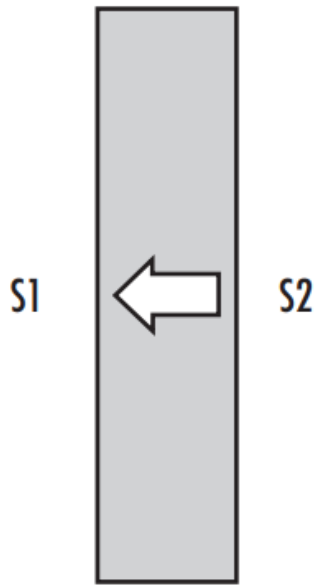
## PRODUCT DETAILS

- High Transmission, Deep Blocking
- Broad Bandwidths Ideal for Imaging Applications
- Available in VS 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