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TECHSPEC<sup>®</sup> 1450nm CWL, 50mm Dia. Hard Coated OD 4.0 50nm Bandpass Filter



Stock **#85-913** 5 In Stock

[Additional Bandwidths](#)

-

1

+

€865<sup>.00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | €865,00 each                  |
| Qty 6-25       | €692,00 each                  |
| Qty 26-49      | €648,75 each                  |
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**i** Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Bandpass Filter

Type:

Physical & Mechanical Properties

50.00 +0.0/-0.1

Diameter (mm):

|                                                                                                                                                                             |                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 45.0                                                                                                                                                                        | Clear Aperture CA (mm): |
|                                                                                                                                                                             |                         |
| Mounted in Black Anodized Ring                                                                                                                                              | Construction:           |
|                                                                                                                                                                             |                         |
| Physical Durability:<br>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-48497ASection 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): |
|------|-------------------------------|

|          |                             |
|----------|-----------------------------|
| 1,450.00 | 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 - 1800 | Blocking Wavelength Range (nm): |
|------------|---------------------------------|

Threading & Mounting

|          |                       |
|----------|-----------------------|
| 5.0 ±0.1 | Mount Thickness (mm): |
|----------|-----------------------|

Environmental & Durability Factors

|                                                                                                                                |  |
|--------------------------------------------------------------------------------------------------------------------------------|--|
| Environmental Durability:<br>Humidity per MIL-STD-810H, Section 507.6<br>Temperature per MIL-STD-810H, Section 501.7 and 502.7 |  |
|--------------------------------------------------------------------------------------------------------------------------------|--|

Regulatory Compliance

|           |                             |
|-----------|-----------------------------|
| Compliant | RoHS 2015:                  |
|           |                             |
| View      | Certificate of Conformance: |
|           |                             |
| Compliant | Reach 247:                  |

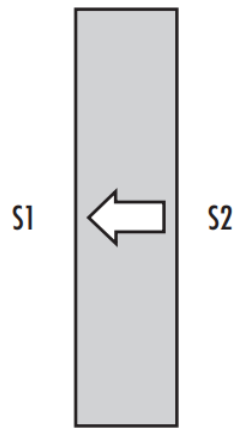
## Product Details

- 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). 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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