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TECHSPEC<sup>®</sup> 325nm CWL, 12.5mm Dia. Hard Coated OD 4.0 50nm Bandpass Filter



Stock **#12-089** 20+ In Stock

[Additional Bandwidths](#)

-

1

+

S\$287<sup>00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | S\$287.00 each                |
| Qty 6-25       | S\$229.60 each                |
| Qty 26-49      | S\$215.25 each                |
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Product Downloads

| General                          |                         |
|----------------------------------|-------------------------|
| Bandpass Filter                  | Type:                   |
| Physical & Mechanical Properties |                         |
| 12.50 +0.0/-0.1                  | Diameter (mm):          |
| 8.5                              | Clear Aperture CA (mm): |

|                                                                                                                                                      |                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Mounted in Black Anodized Ring                                                                                                                       | <b>Construction:</b>        |
|                                                                                                                                                      |                             |
| 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 | <b>Physical Durability:</b> |
|                                                                                                                                                      |                             |
|                                                                                                                                                      |                             |
|                                                                                                                                                      |                             |

|                                  |  |
|----------------------------------|--|
| <b>Substrate Thickness (mm):</b> |  |
| 3.5 ±0.5                         |  |

Optical Properties

|    |                                |
|----|--------------------------------|
| 0  | <b>Angle of Incidence (°):</b> |
|    |                                |
| 45 | <b>Bandwidth (nm):</b>         |
|    |                                |

|           |                                      |
|-----------|--------------------------------------|
| ≥4.0      | <b>Optical Density OD (Average):</b> |
|           |                                      |
| 325.00 ±5 | <b>Center Wavelength CWL (nm):</b>   |
|           |                                      |

|               |                                            |
|---------------|--------------------------------------------|
| 50.00 ±5      | <b>Full Width-Half Max FWHM (nm):</b>      |
|               |                                            |
| Optical Glass | <b>Substrate:</b> <input type="checkbox"/> |
|               |                                            |

|             |                                  |
|-------------|----------------------------------|
| >80         | <b>Minimum Transmission (%):</b> |
|             |                                  |
| Hard Coated | <b>Coating:</b>                  |
|             |                                  |

|            |                                        |
|------------|----------------------------------------|
| 80-50      | <b>Surface Quality:</b>                |
|            |                                        |
| 200 - 1200 | <b>Blocking Wavelength Range (nm):</b> |
|            |                                        |

Threading & Mounting

|                              |  |
|------------------------------|--|
| <b>Mount Thickness (mm):</b> |  |
| 5.0 ±0.1                     |  |

Environmental & Durability Factors

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

Regulatory Compliance

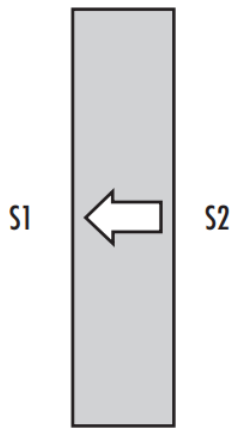
|                           |                                    |
|---------------------------|------------------------------------|
| <a href="#">Compliant</a> | <b>RoHS 2015:</b>                  |
|                           |                                    |
| <a href="#">View</a>      | <b>Certificate of Conformance:</b> |
|                           |                                    |

|                           |  |
|---------------------------|--|
| <b>Reach 247:</b>         |  |
| <a href="#">Compliant</a> |  |

## 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