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TECHSPEC<sup>®</sup> 875nm CWL, 50mm Dia. Hard Coated OD 4.0 50nm Bandpass Filter



Stock #86-970 10 In Stock

[Additional Bandwidths](#)

-

1

+

S\$959<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | S\$959.00 each                |
| Qty 6-25       | S\$767.20 each                |
| Qty 26-49      | S\$719.25 each                |
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Product Downloads

| General                          |                         |
|----------------------------------|-------------------------|
| Bandpass Filter                  | Type:                   |
| Physical & Mechanical Properties |                         |
| 50.00 +0.0/-0.1                  | Diameter (mm):          |
| 45.0                             | Clear Aperture CA (mm): |

|                                                        |  |
|--------------------------------------------------------|--|
| Construction:                                          |  |
| Mounted in Black Anodized Ring                         |  |
| Physical Durability:                                   |  |
| Adhesion per MIL-PRF-13830B, Section C.4.5.12          |  |
| Moderate abrasion per MIL-PRF-13830B, Section C.4.5.11 |  |
| 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):   |  |
| 875.00                        |  |

|                                     |  |
|-------------------------------------|--|
| 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              |  |
| Temperature per MIL-STD-810H, Section 501.7 and 502.7 |  |

Regulatory Compliance

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

|                           |  |
|---------------------------|--|
| Reach 247:                |  |
| <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