

TECHSPEC<sup>®</sup> 775nm CWL, 50mm Dia. Hard Coated OD 4.0 50nm Bandpass Filter



Stock **#86-968** 5 In Stock

[Additional Bandwidths](#)

-

1

+

€685<sup>.00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | €685,00 each                  |
| Qty 6-25       | €548,00 each                  |
| Qty 26-49      | €513,75 each                  |
| Need More?     | <a href="#">Request Quote</a> |

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:  
Bandpass Filter

Typical Applications:  
IRDye800CW, DyLight 800, Cy7, LIVE/DEAD fixable  
Near-IR Dead Cell Stain

Physical & Mechanical Properties

|                                                                                                                                                      |                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 50.00 +0.0/-0.1                                                                                                                                      | Diameter (mm):          |
| 45.0                                                                                                                                                 | 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):       |
| 775.00        | 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 - 1200    | 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 241:                  |

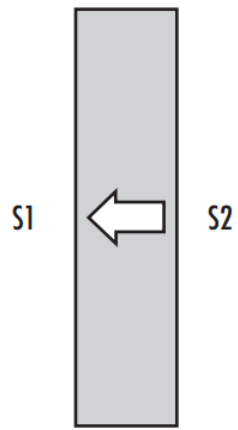
## Product Details

- 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

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