

**TECHSPEC® 475nm CWL, 50mm Dia. Hard Coated OD 4.0 50nm Bandpass Filter**



Stock **#86-962** **3 In Stock**

[Additional Bandwidths](#)

⊖ 1 ⊕ **\$924<sup>00</sup>**

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Volume Pricing	
Qty 1-5	<b>\$924.00</b> each
Qty 6-25	<b>\$739.20</b> each
Qty 26-49	<b>\$693.00</b> each
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Product Downloads

**General**

Bandpass Filter **Type:**  
  
**Typical Applications:**  
 4-[4-(Dimethylamino)Styryl]-N-MethylPyridinium, 4-Di-10-ASP, DiO

**Physical & Mechanical Properties**

**Diameter (mm):**

50.00 +0.0/-0.1

Clear Aperture CA (mm):

45.0

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):

475.00

Full Width-Half Max FWHM (nm):

50.00

Substrate: □

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 ML-STD-810H, Section 507.6  
Temperature per ML-STD-810H, Section 501.7 and 502.7

## Regulatory Compliance

RoHS 2015:

Compliant

Certificate of Conformance:

View

Reach 247:

Compliant

## Need different specs or modifications?

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](#).

## 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.*

## Compatible Mounts

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