

TECHSPEC<sup>®</sup> 425nm CWL, 50mm Dia. Hard Coated OD 4.0 50nm Bandpass Filter



Stock **#86-961** 4 In Stock

[Additional Bandwidths](#)

-

1

+

€660<sup>.00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | €660,00 each                  |
| Qty 6-25       | €528,00 each                  |
| Qty 26-49      | €495,00 each                  |
| Need More?     | <a href="#">Request Quote</a> |

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:  
Bandpass Filter

Typical Applications:  
Lucifer yellow, Aqua 431, Acridine Homodimer

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              |                         |

|          |                           |
|----------|---------------------------|
| 3.5 ±0.5 | Substrate Thickness (mm): |
|----------|---------------------------|

Optical Properties

|    |                         |
|----|-------------------------|
| 0  | Angle of Incidence (°): |
| 45 | Bandwidth (nm):         |

|      |                               |
|------|-------------------------------|
| ≥4.0 | Optical Density OD (Average): |
|------|-------------------------------|

|        |                             |
|--------|-----------------------------|
| 425.00 | Center Wavelength CWL (nm): |
|--------|-----------------------------|

|       |                                |
|-------|--------------------------------|
| 50.00 | Full Width-Half Max FWHM (nm): |
|-------|--------------------------------|

|               |                        |
|---------------|------------------------|
| Optical Glass | Substrate: <div></div> |
|---------------|------------------------|

|     |                           |
|-----|---------------------------|
| ≥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

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

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). 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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