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TECHSPEC® 405nm CWL, 50mm Dia., Hard Coated OD 4.0 5nm Bandpass Filter



TECHSPEC Hard Coated OD 4.0 5nm Bandpass Filters

Stock **#39-376** **1 In Stock**

[Additional Bandwidths](#)

⊖ 1 ⊕ **SS\$1,470⁰⁰**

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Volume Pricing	
Qty 1-5	SS\$1,470.00 each
Qty 6-25	SS\$1,176.00 each
Qty 26-49	SS\$1,102.50 each
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Product Downloads

General

Bandpass Filter **Type:**

Diode Laser **Typical Applications:**

Physical & Mechanical Properties

Diameter (mm):

50.00 +0.0/-0.1

Clear Aperture CA (mm):

45

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

Optical Properties

Angle of Incidence (°):

0

Optical Density OD (Average):

≥4.0

Center Wavelength CWL (nm):

405.00 ±1.0

Full Width-Half Max FWHM (nm):

5.00 ±1.0

Substrate:

Optical Glass

Minimum Transmission (%):

>85

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

- Variety of UV, VIS, and NIR Laser Lines Available
- Deep Blocking and High Transmission
- Steep Transmission and Rejection Slopes
- Hard Coated OD 4.0 **10nm**, **25nm** and **50nm** Bandpass Filters Also Available

TECHSPEC® Hard Coated OD 4.0 5nm Bandpass Filters offer high transmission over a narrow spectral bandwidth at a variety of common laser lines. The narrow 5nm Full-Width Half Max (FWHM) is ideal for laser line clean-up applications, allowing for an improved signal-to-noise ratio compared to those achievable with wider band filters. TECHSPEC Hard Coated OD 4.0 5nm Bandpass Filters feature durable hard coatings to minimize filter degradation, while increasing transmission. These optical filters offer steep slopes with deep blocking to achieve high performance in demanding applications.

Note: These filters are not regularly tested for Laser Damage Threshold (LDT). A typical energy density limit is >2 J/cm² @ 1064nm, 20ns. Please [contact us](#) if you require a filter with a specified LDT 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
