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TECHSPEC® 405nm, 12.5mm Dia., OD 6.0 Blocking Notch Filter

TECHSPEC OD 6.0 Notch Filters

Stock **#86-119** **5 In Stock**

Additional Bandwidths

- 1 + **£432**.00

ADD TO CART

Volume Pricing	
Qty 1-5	**£432.00** each
Qty 6-25	**£367.20** each
Qty 26-49	**£337.60** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Notch Filter

Physical & Mechanical Properties

Diameter (mm):

12.50 +0.0/-0.1

Construction:
Mounted in Black Anodized Ring

Clear Aperture (%):
85

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

Optical Density OD (Average):
≥6.0

Center Wavelength CWL (nm):
405.00

Design Wavelength DWL (nm):
405

Full Width-Half Max FWHM (nm):
9.00

Coating:
Hard Coated

Surface Quality:
60-40

Transmission (%):
350 - 400nm: T_{avg} >80
400 - 1200nm: T_{avg} >90

Transmission Wavelength (nm):
350 - 1200

Reflection at CWL (%):
>99.0

Transmitted Wavefront, RMS:
<1λ

Threading & Mounting

Mount Thickness (mm):
3.5

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:
Compliant

Certificate of Conformance:
View

Reach 240:
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

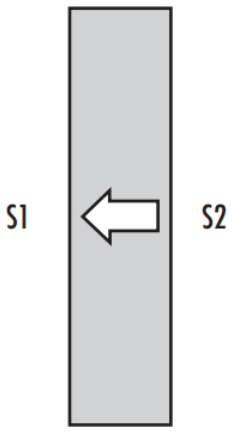
- OD 6.0 Rejection of Laser Wavelength from 355 to 1064 nm
- Broad Transmission Range
- Ideal for Laser-Based Raman, Fluorescence, and Biomedical Systems
- **OD 4.0 Notch Filters** and **OD 6.0 Multi-Notch Filter for Nd:YAG Lasers** Also Available

TECHSPEC® OD 6.0 Notch Filters feature deep blocking with broad transmission bands that are ideal for use in laser analysis applications where specific wavelengths need to be blocked in order to maximize system performance. For instance, TECHSPEC® OD 6.0 Notch Filters can be used in Raman spectrometers to eliminate unwanted noise from the pump laser source to obtain the optimum signal-to-noise ratio. These optical filters feature hard coatings that will not degrade with time, temperature, or humidity, and have been mounted in black anodized rings that have been engraved to ease filter handling, identification, or orientation.

TECHSPEC OD 6.0 Notch Filters feature high OD 6.0 blocking, one of the highest optical densities for notch filters in the optics industry. High blocking at the center wavelength coupled with high transmission of wavelengths outside of this makes these notch filters ideal when high throughput is critical.

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^2 @ 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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