

TECHSPEC<sup>®</sup> 405nm, 50mm Diameter, OD 4.0 Notch Filter



TECHSPEC OD 4.0 Notch Filters

Stock **#67-125** [CONTACT US](#)

[Additional Bandwidths](#)

-

1

+

**\$1,414**<sup>.00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | <b>\$1,414.00</b> each        |
| Qty 6-25       | <b>\$1,202.60</b> each        |
| Qty 26-49      | <b>\$1,118.60</b> each        |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

General

|       |              |
|-------|--------------|
| Type: | Notch Filter |
|-------|--------------|

Physical & Mechanical Properties

|                         |                   |
|-------------------------|-------------------|
| Diameter (mm):          | 50.00 +0.00/-0.10 |
| Clear Aperture CA (mm): |                   |

|                                |                                                                                                                                                                             |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 42.5                           |                                                                                                                                                                             |
|                                |                                                                                                                                                                             |
| 5.00 ±0.1                      | Thickness (mm):                                                                                                                                                             |
|                                |                                                                                                                                                                             |
| Mounted in Black Anodized Ring | Construction:                                                                                                                                                               |
|                                |                                                                                                                                                                             |
|                                | Physical Durability:<br>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-48497ASection 4.5.4.2 |
|                                |                                                                                                                                                                             |
| 3.5 ±0.5                       | Substrate Thickness (mm):                                                                                                                                                   |

| Optical Properties |                                |
|--------------------|--------------------------------|
|                    |                                |
| ≥4.0               | Optical Density OD (Average):  |
|                    |                                |
| 405.00             | Center Wavelength CWL (nm):    |
|                    |                                |
| 405                | Design Wavelength DWL (nm):    |
|                    |                                |
| 20.20              | Full Width-Half Max FWHM (nm): |
|                    |                                |
| Hard Coated        | Coating:                       |
|                    |                                |
| 60-40              | Surface Quality:               |
|                    |                                |
| 90                 | Transmission (%):              |
|                    |                                |
| 325 - 540          | Transmission Wavelength (nm):  |
|                    |                                |
| 99                 | Reflection at CWL (%):         |
|                    |                                |
| <1λ                | Transmitted Wavefront, RMS:    |

| Threading & Mounting |                       |
|----------------------|-----------------------|
|                      |                       |
| 5.0                  | Mount Thickness (mm): |

| Environmental & Durability Factors |                                                                                                                                |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
|                                    |                                                                                                                                |
|                                    | Environmental Durability:<br>Humidity per MIL-STD-810H, Section 507.6<br>Temperature per MIL-STD-810H, Section 501.7 and 502.7 |
|                                    |                                                                                                                                |

| Regulatory Compliance |                             |
|-----------------------|-----------------------------|
|                       |                             |
| Compliant             | RoHS 2015:                  |
|                       |                             |
| View                  | Certificate of Conformance: |
|                       |                             |
| Compliant             | Reach 247:                  |

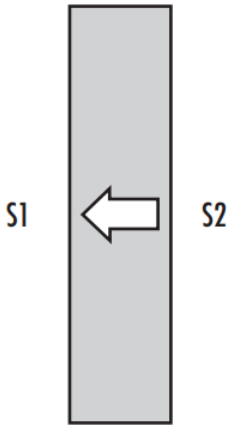
## Product Details

- >OD 4.0 Rejection of Laser Wavelength from 355nm to 1064nm
  - Broad Transmission Range
  - [OD 6.0 Notch Filters Also Available](#)
  - Low Cost Alternative to Rugate Notch Filters
- TECHSPEC® OD 4.0 Notch Filters are low-cost alternatives to Rugate Notch Filters. The filters feature narrow rejection bands of just ±2.5% of the center wavelength while offering greater than 99% reflection of the laser wavelength. These optical filters have a broad transmission range and are hard coated to guarantee performance that will not degrade with time, temperature, or humidity. TECHSPEC® OD 4.0 Notch Filters are mounted in a black anodized ring engraved to ease filter handling, identification, and orientation. [OD 6.0 Notch Filters](#) are also available for purchase.
- 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



This graph is an example of a standard notch filter transmission curve. For specific wavelength data, please refer to the curve PDF attached to each respective part.



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