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TECHSPEC®

808nm, 12.5mm Diameter, OD 4.0 Notch Filter



TECHSPEC OD 4.0 Notch Filters

Stock **#86-700** **3 In Stock**

-

1

+

C\$448<sup>00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | C\$448.00 each                |
| Qty 6-25       | C\$380.80 each                |
| Qty 26-49      | C\$354.20 each                |
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Product Downloads

| General                          |                         |
|----------------------------------|-------------------------|
| Notch Filter                     | Type:                   |
| Physical & Mechanical Properties |                         |
| 12.50 +0.00/-0.10                | Diameter (mm):          |
| 10.6                             | Clear Aperture CA (mm): |

|                                                                                                                                                                           |                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| 5.00 ±0.1                                                                                                                                                                 | Thickness (mm):           |
| Mounted in Black Anodized Ring                                                                                                                                            | Construction:             |
| Physical Durability:<br>Adhesion per ML-PRF-13830B, Section C.4.5.12<br>Moderate abrasion per ML-PRF-13830B, Section C.4.5.11<br>Cleaning per ML-C-48497A Section 4.5.4.2 |                           |
| 3.5 ±0.5                                                                                                                                                                  | Substrate Thickness (mm): |

|                    |                                |
|--------------------|--------------------------------|
| Optical Properties |                                |
| ≥4.0               | Optical Density OD (Average):  |
| 808.00             | Center Wavelength CWL (nm):    |
| 808                | Design Wavelength DWL (nm):    |
| 40.00              | Full Width-Half Max FWHM (nm): |
| Hard Coated        | Coating:                       |
| 60-40              | Surface Quality:               |
| 90                 | Transmission (%):              |
| 600 - 1070         | Transmission Wavelength (nm):  |
| 99                 | Reflection at CWL (%):         |
| <1λ                | Transmitted Wavefront, RMS:    |

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

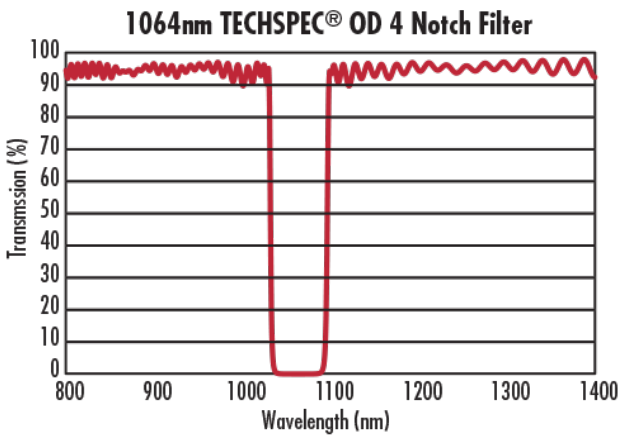
|                                                                                                                              |  |
|------------------------------------------------------------------------------------------------------------------------------|--|
| Environmental & Durability Factors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

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

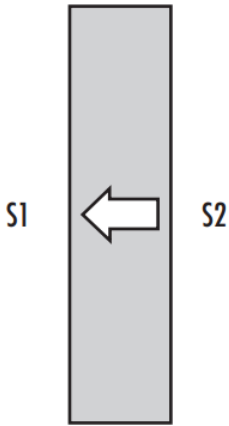
## Product Details

- >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