

**TECHSPEC® 785nm, 50mm Diameter, OD 4.0 Notch Filter**

TECHSPEC OD 4.0 Notch Filters

Stock **#67-130** **5 In Stock** [Additional Bandwidths](#)   £808<sup>.00</sup>**ADD TO CART**

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | £808.00 each                  |
| Qty 6-25       | £687.20 each                  |
| Qty 26-49      | £639.20 each                  |
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Prices shown are exclusive of VAT/local taxes

## Product Downloads

**SPECIFICATIONS****General**

Type:

## Physical & Mechanical Properties

**Diameter (mm):** 50.00 +0.00/-0.10

**Clear Aperture CA (mm):** 42.5

**Thickness (mm):** 5.00 ±0.1

**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

**Substrate Thickness (mm):** 3.5 ±0.5

## Optical Properties

**Optical Density OD (Average):** ≥4.0

**Center Wavelength CWL (nm):** 785.00

**Design Wavelength DWL (nm):** 785

**Full Width-Half Max FWHM (nm):** 39.20

**Coating:** Hard Coated

**Surface Quality:** 60-40

**Transmission (%):** 90

**Transmission Wavelength (nm):** 585 - 1045

**Reflection at CWL (%):** 99

**Transmitted Wavefront, RMS:** <1λ

## Threading & Mounting

**Mount Thickness (mm):** 5.0

## 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 247:** Compliant

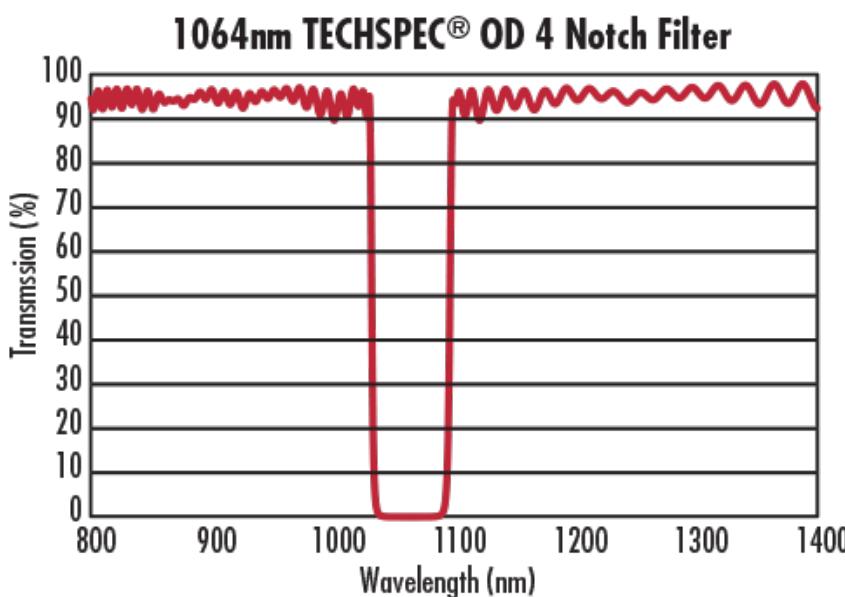
## PRODUCT DETAILS

- >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

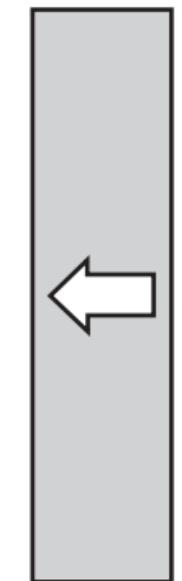
TECHSPEC® OD 4.0 Notch Filters are low-cost alternatives to Rugate Notch Filters. The filters feature narrow rejection bands of just ±2.5% of the center wavelength while offering greater than 99% reflection of the laser wavelength. These optical filters have a broad transmission range and are hard coated 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