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## TECHSPEC® 3.0 OD 50mm Dia., NIR ND Filter



Near-IR (NIR) Neutral Density (ND) Filters

Stock #62-681 **5 In Stock**

1  MRP ₹22,297

Price inclusive of all taxes

**ADD TO CART**

Volume Pricing	
Qty 1-5	₹22,297 each
Qty 6-25	₹17,858 each
Qty 26-49	₹16,950 each
Need More?	<a href="#">Request Quote</a>

### Product Downloads

### General

Neutral Density Filter **Type:**

### Physical & Mechanical Properties

50.00 +0.0/-0.2 **Diameter (mm):**

**Thickness (mm):**

5.00 +0.00/-0.10

80 **Clear Aperture (%)**:

<5 **Parallelism (arcsec)**:

## Optical Properties

3.0 **Optical Density OD (Average)**:

**Fused Silica** (Coming 7980) **Substrate:**

Metallic Based ND **Coating:**

40-20 **Surface Quality:**

0.1 **Transmission (%)**:

700 - 1100 **Blocking Wavelength Range (nm)**:

$\lambda/4$  **Transmitted Wavefront, P-V:**

$\pm 10$  **Optical Density Tolerance (%)**:

## Regulatory Compliance

**Compliant** **RoHS 2015:**

**View** **Certificate of Conformance:**

**Compliant** **REACH 241:**

United States **Country of Origin:**

**Imported By:**  
Edmund Optics India Private Limited  
267, Greystone Building, Second Floor,  
6th Cross Rd, Binnamangala,  
Stage 1, Indiranagar, Bengaluru,  
Karnataka, India 560038  
Phone: +91- 80-6845 0000

## 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

- Ideal for NIR Wavelengths 700-1100nm
- Optical Densities Ranging from 0.3 to 3.0

TECHSPEC® Near-IR (NIR) Neutral Density (ND) Filters feature a spectrally flat region between 700 and 1100nm, outstanding parallelism, and exceptional surface characteristics. The combination of high tolerance and broadband performance makes our filters ideal for attenuating a wide range of IR sources. The UV Fused Silica substrate features a low coefficient of thermal expansion and excellent surface quality, making these filters suitable for attenuating low power lasers, including lasers at the 1064nm Nd:YAG wavelength. Other applications include NIR spectroscopy, machine vision, and analytical chemistry. TECHSPEC Near-IR (NIR) Neutral Density (ND) Filters may be stacked to obtain a variety of optical densities. Orient the mirrored side toward the source at a 0° angle of incidence. Optical Densities of 0.5, 1.0, 1.5, 2.0, 2.5, and 3.0 are available in a [Pre-Loaded Filter Wheel](#).

**Note:** Due to supply chain issues, our kits may be delivered with an alternative packaging solution in place of a wooden box. For any questions, please contact [kits@edmundoptics.com](mailto:kits@edmundoptics.com).

## Technical Information



## Compatible Mounts

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