

TECHSPEC<sup>®</sup> 825nm 50mm Diameter, OD 4.0 Shortpass Filter



High Performance OD 4.0 Shortpass Filters

Stock **#86-113** **5 In Stock**

-

1

+

€595<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | €595,00 each                  |
| Qty 6-25       | €476,00 each                  |
| Qty 26-49      | €438,00 each                  |
| Need More?     | <a href="#">Request Quote</a> |

**i** Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Shortpass Filter

Type:

Arrow on part indicates filter coated surface.

Note:

Physical & Mechanical Properties

Diameter (mm):

|                                                                                                                                                                             |                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 50.00 +0.0/-0.2                                                                                                                                                             |                     |
| 5.00 ±0.1                                                                                                                                                                   | Thickness (mm):     |
| >80                                                                                                                                                                         | Clear Aperture (%): |
| 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 |                     |

|                                |                                     |
|--------------------------------|-------------------------------------|
| Optical Properties             |                                     |
| 0                              | Angle of Incidence (°):             |
| ≥4.0                           | Optical Density OD (Average):       |
| 825.00                         | Cut-Off Wavelength (nm):            |
| Fused Silica (Corning 7980)    | Substrate: <input type="checkbox"/> |
| Hard Coated                    | Coating:                            |
| 850 - 1190                     | Rejection Wavelength (nm):          |
| 60-40                          | Surface Quality:                    |
| ≥91                            | Transmission (%):                   |
| 400 - 810                      | Transmission Wavelength (nm):       |
| ≤N4 @ 633nm (prior to coating) | Transmitted Wavefront, RMS:         |
| <1                             | Slope Factor (%):                   |
| ±1                             | Cut-Off Tolerance (%):              |
| 400 - 1119                     | Wavelength Range (nm):              |

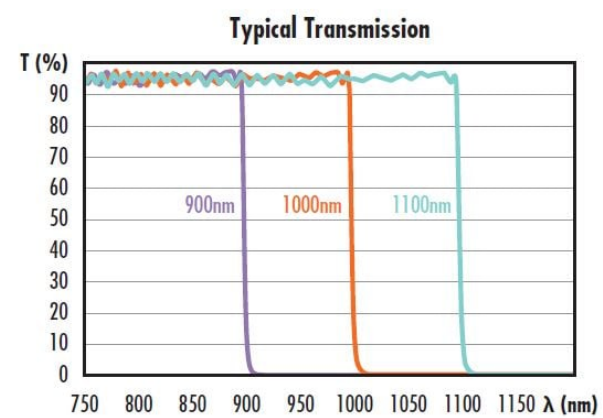
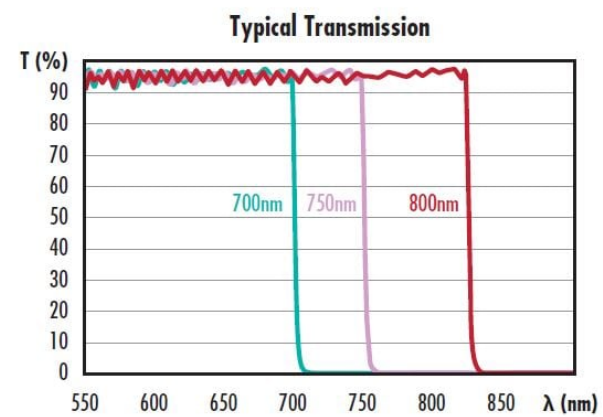
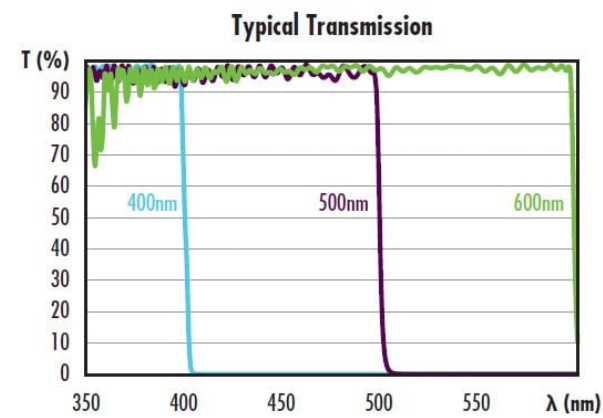
|                                                                                                                                |  |
|--------------------------------------------------------------------------------------------------------------------------------|--|
| Environmental & Durability Factors                                                                                             |  |
| 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

- Broad Transmission and Rejection Ranges
  - Sharp Slope for Effective Spectral Discrimination
  - Combine with Longpass Filter for Custom Bandpass Ranges
- High Performance OD 4.0 Shortpass Filters are designed with superior blocking in the rejection band while maximizing transmission in the pass band. They have a rejection band optical density of 4.0 that is combined with ≥ 91% in the pass band. This enables these filters to be ideal for a wide variety of applications. High Performance OD 4.0 Shortpass Filters can be combined with our [TECHSPEC® OD 4.0 Longpass Filters](#) to create a customized precision bandpass filter. The VIS Shortpass Filter Kits include 7 filters between 400-700nm and both are ideal for integration with our filter wheels.
- 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



## 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