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TECHSPEC® 650nm 50mm Diameter, OD 4.0 Shortpass Filter

High Performance OD 4.0 Shortpass Filters

Stock **#84-725** **14 In Stock**

- 1 + **S$819**.00

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Volume Pricing	
Qty 1-5	**S$819.00** each
Qty 6-25	**S$655.20** each
Qty 26-49	**S$603.40** each
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Product Downloads

General

Type:

Shortpass Filter

Note:

Arrow on part indicates filter coated surface.

Physical & Mechanical Properties

Diameter (mm):

50.00 +0.0/-0.2

Thickness (mm):
5.00 ±0.1

Clear Aperture (%):
>80

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

Optical Properties

Angle of Incidence (°):
0

Optical Density OD (Average):
≥4.0

Cut-Off Wavelength (nm):
650.00

Substrate:
Fused Silica (Corning 7980)

Coating:
Hard Coated

Rejection Wavelength (nm):
665 - 960

Surface Quality:
60-40

Transmission (%):
≥91

Transmission Wavelength (nm):
350 - 636

Transmitted Wavefront, RMS:
≤*N*4 @ 633nm (prior to coating)

Slope Factor (%):
<1

Cut-Off Tolerance (%):
±1

Wavelength Range (nm):
350 - 960

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

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.

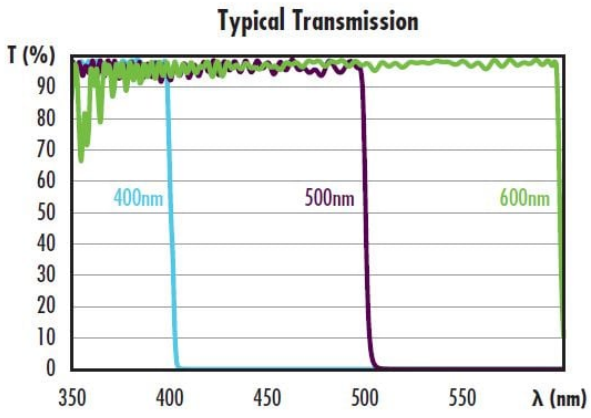
Product Details

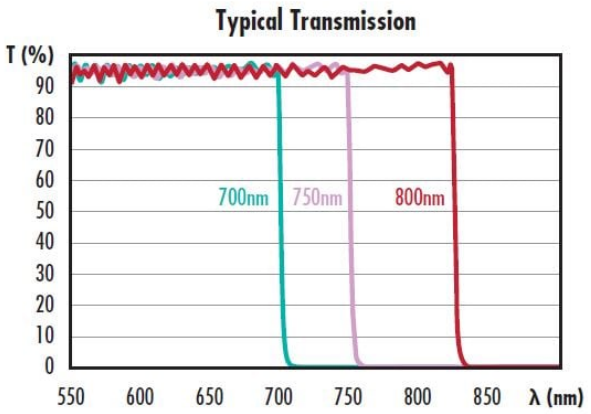
- Broad Transmission and Rejection Ranges
- Sharp Slope for Effective Spectral Discrimination
- Combine with Longpass Filter for Custom Bandpass Ranges

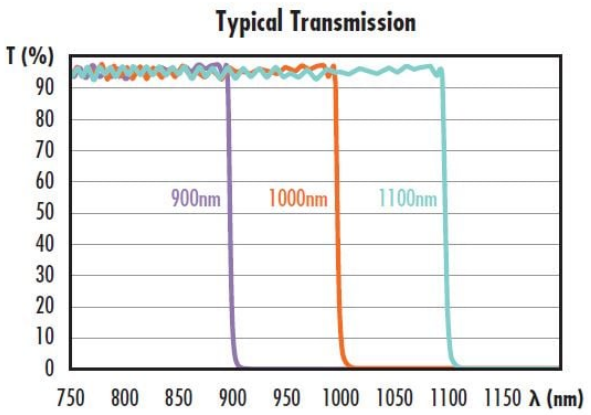
High Performance OD 4.0 Shortpass Filters are designed with superior blocking in the rejection band while maximizing transmission in the pass band. They have a rejection band optical density of 4.0 that is combined with ≥ 91% in the pass band. This enables these filters to be ideal for a wide variety 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^2 @ 532nm, 10ns. Please **contact us** if you require a filter with a higher LIDT value.

Technical Information







Compatible Mounts

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