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780nm CWL, 25mm Dia., OD 6 Ultra Narrow Filter

Ultra Narrow Bandpass Filters

Stock **#36-641** **4 In Stock**

Additional Bandwidths

- 1 + S$2,324.00

ADD TO CART

Volume Pricing	
Qty 1-9	**S$2,324.00** each
Qty 10-25	**S$2,091.60** each
Qty 26-49	**S$1,965.60** each
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Product Downloads

General

Type:
Bandpass Filter

Note:
Filter Design: Multi-Cavity

Physical & Mechanical Properties

Diameter (mm):
25.00

Clear Aperture CA (mm):
21.34

Construction:
Mounted in Black Anodized Ring

Substrate Thickness (mm):
2.00

Optical Properties

Angle of Incidence (°):
0

Optical Density OD (Average):
6.00

Center Wavelength CWL (nm):
780.00

Full Width-Half Max FWHM (nm):
1.20

Substrate:
BOROFLOAT®

Minimum Transmission (%):
>90

Coating:
Hard Coated

Transmission (%):
T_{abs} >90 @ 780nm

Blocking Wavelength Range (nm):
390 - 769, 791 - 1000

Threading & Mounting

Mount Thickness (mm):
5.0

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 247:
Compliant

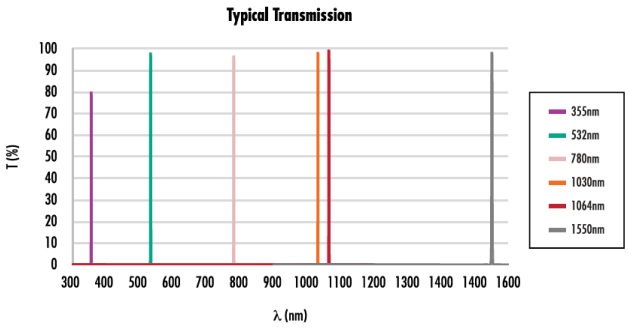
Product Details

- >90% Transmission at Design Wavelength
- Up to >OD 8 Blocking Across Blocking Range
- As Narrow as <0.5nm Full Width-Half Max

Ultra Narrow Hard Coated Bandpass Filters are ideal for use as laser line, laser cleanup, or laser excitation filters in demanding medical and laser applications. These hard coated narrowband filters are manufactured with state of the art plasma deposition processes, which ensure high resistance to laser damage and a high level of performance over a long period of time. Depending on the wavelength range and system requirements, these Ultra Narrow Hard Coated Bandpass Filters will provide up to 98% peak transmission, up to OD 10 blocking by design, center wavelength tolerances as tight a 0.05nm, FWHM bandwidths <1nm, and extremely steep edges with an ultra-flat passband profile. Typical applications for these ultra narrowband filters include fluorescence microscopy, flow cytometry, real time DNA sequencing, and polymerase chain reaction (PCR) diagnostic instruments.

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



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