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510nm CWL, >OD5, 20nm FWHM Bandpass Filter, 25mm Dia.

Hard Coated OD5 Bandpass Filters

Stock **#78-427** **2 In Stock**

- 1 + **S$278**.60

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Qty 1+	**S$278.60** each
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General

Type:
Bandpass Filter

Typical Applications:
Scattered light and point detection (Flow Cytometry), not suitable for imaging, immunophenotyping

Note:
Arrow on ring indicates preferred direction of propagation of light.

Physical & Mechanical Properties

Diameter (mm):

25.00 ±0.10

Clear Aperture CA (mm):

>22

Construction:

Mounted in Black Anodized Ring

Substrate Thickness (mm):

2.00 ±0.10

Optical Properties

Angle of Incidence (°):

0 ±5

Bandwidth (nm):

15

Optical Density OD (Average):

>5

Center Wavelength CWL (nm):

510.00 (Nominal)

Full Width-Half Max FWHM (nm):

20.00 (Nominal)

Substrate:

Optical Grade Glass

Minimum Transmission (%):

>93 @ 502.5 – 517.5nm

Coating:

Hard Coated

Surface Quality:

80-50

Blocking Wavelength Range (nm):

330 - 900

Cone Half Angle (°):

7

Threading & Mounting

Mount Thickness (mm):

3.50 ±0.10

Regulatory Compliance

RoHS 2015:

Compliant

Certificate of Conformance:

View

Reach 251:

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

- Suitable for Single-Point Fluorescence Detection and Flow Cytometry Applications
- 52 Distinct Design Wavelengths Covering the NUV – NIR Spectrum
- >OD5 Average Blocking from 330 – 900nm
- Mounted for Easy Handling and System Integration

Hard Coated OD5 Bandpass Filters are available in 52 distinct passbands with design wavelengths from 340 to 895nm in step increments of 10-15nm in the NUV, VIS, and NIR. These cost-efficient hard-coated filters feature high transmission (>90%) with full-width half maximum (FWHM) of 20nm, or 30nm in the NIR, for essential optical performance. Hard Coated OD5 Bandpass Filters feature high average blocking >OD5 outside the passband from 330 – 900nm, making them suited for flow cytometry and single-point fluorescence detection, such as photometry and point-scanning. All filters are mounted in 25mm diameter black anodized aluminum rings to facilitate handling and system integration.

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