

550nm CWL, >OD5, 20nm FWHM Bandpass Filter, 25mm Dia.



Hard Coated OD5 Bandpass Filters

Stock **#78-431** NEW **5 In Stock**

-

1

+

€190^{.55}

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Volume Pricing	
Qty 1+	€190,55 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

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): 550.00 (Nominal)	
Full Width-Half Max FWHM (nm): 20.00 (Nominal)	
Substrate: Optical Grade Glass	
Minimum Transmission (%): >93 @ 542.5 – 557.5nm	
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	
Certificate of Conformance: View	

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.

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](#).