

TECHSPEC® 425nm CWL, 12.5mm Dia. Hard Coated OD 4.0 25nm Bandpass Filter



Stock **#87-775** **20+ In Stock**

[Additional Bandwidths](#)

- 1 + MRP ₹18,262

i Price inclusive of all taxes

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Volume Pricing	
Qty 1-5	₹18,262 each
Qty 6-25	₹14,630 each
Qty 26-49	₹13,696 each
Need More?	Request Quote

Product Downloads

General

Bandpass Filter **Type:**

Typical Applications:
8-Aminopyrene-1,3,6-Trisulfonic Acid Trisodium Salt,
Lucifer yellow, Aqua 431

Physical & Mechanical Properties

12.50 +0.0/-0.1	Diameter (mm):
8.5	Clear Aperture CA (mm):
5.00	Thickness with Mount (mm):
Mounted in Black Anodized Ring	Construction:
Physical Durability: Adhesion per ML-PRF-13830B, Section C.4.5.12 Moderate abrasion per ML-PRF-13830B, Section C.4.5.11 Cleaning per ML-C-48497A Section 4.5.4.2	
3.5 ±0.5	Substrate Thickness (mm):

Optical Properties

0	Angle of Incidence (°):
20	Bandwidth (nm):
≥4.0	Optical Density OD (Average):
425.00 ±3	Center Wavelength CWL (nm):
±3	Center Wavelength CWL Tolerance (nm):
25.00 ±3	Full Width-Half Max FWHM (nm):
±3	Full Width-Half Max FWHM Tolerance (nm):
Optical Glass	Substrate: <input type="checkbox"/>
>90	Minimum Transmission (%):
Hard Coated	Coating:
80-50	Surface Quality:
200 - 1200	Blocking Wavelength Range (nm):

Threading & Mounting

5.0 ±0.1	Mount Thickness (mm):
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Environmental & Durability Factors

Environmental Durability: Humidity per ML-STD-810H, Section 507.6 Temperature per ML-STD-810H, Section 501.7 and 502.7	
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Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:
United States	Country of Origin:
Imported By: Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91- 80-6845 0000	

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](#).

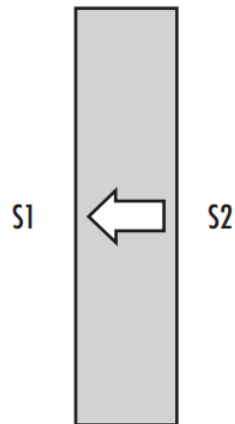
Product Details

- Ideal for Life Science Instrumentation
- High Transmission, Deep Blocking
- Used to Prevent Photobleaching in Microscopy Applications
- Hard Coated OD 4.0 [5nm](#), [10nm](#) and [50nm](#) Bandpass Filters also Available

TECHSPEC® Hard Coated OD 4.0 25nm Bandpass Filters are designed to be a midrange alternative to broadband or narrowband filters. These filters are ideal for fluorescence microscopy or other life science applications that rely on fluorescence detection such as flow cytometry or qPCR. TECHSPEC® Hard Coated OD 4.0 25nm Bandpass Filters can also be used to eliminate unwanted background noise while enhancing the signal-to-noise ratio in imaging or machine vision applications. The filters are designed to have a 0° angle of incidence and are mounted in a black anodized ring. Hard Coated OD 4.0 [5nm](#), [10nm](#), and [50nm](#) bandpass filters are also available.

Note: These filters are optimized for high spectral performance rather than high Laser Induced Damage Thresholds (LIDT). Atypical LIDT for these filters is 1 J/cm² @ 532nm, 10ns. Please [contact us](#) if you require a filter with a higher LIDT value.

Technical Information



All mounted TECHSPEC® Optical Filters have an arrow on the side of the mount that points to the filter-coated surface for quick reference. Filter oriented such that arrow points to filter coated surface S1. Anti-reflective (AR) coating is applied to S2.

Compatible Mounts