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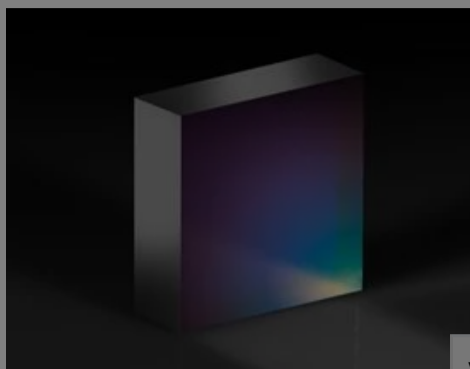
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670nm CWL, 6x6mm OD8 High Blocking Bandpass Filter

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6x6mm OD8 High Blocking Bandpass Filter

1

€199⁰⁰

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Volume Pricing

Qty 1-5	€199,00 each
Qty 6-25	€159,00 each
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Prices shown are exclusive of VAT/local taxes

Product Downloads



Curve:pdf



EO Spec Sheet



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General

Type:	Bandpass Filter	Typical Applications:	qPCR
Compatible Fluorophore:	Cy5 Emission		

Physical & Mechanical Properties

Dimensions (mm):	6.0 x 6.0 +0.0/-0.25	Clear Aperture CA (mm):	≥5.4 Dia. (Centered)
Thickness (mm):	2.00 (Nominal)	Construction:	Unmounted
Edges:	Painted opaque flat black		

Optical Properties

Angle of Incidence (°):	0 ±5	Optical Density OD (Average):	≥8.0
Center Wavelength CWL (nm):	670.00 ±1.7	Full Width-Half Max FWHM (nm):	25.00 (Nominal)
Substrate:	BOROFLOAT®	Minimum Transmission (%):	≥95
Coating:	Hard Coated	Surface Quality:	60-40
Blocking Wavelength Range (nm):	350 - 850	Cone Half Angle (°):	5
Wavelength Accuracy (%):	±0.25		

Environmental & Durability Factors

Operating Temperature (°C):	>100	Durability:	MIL-PRF-13830B
Environmental Durability:	MIL-STD-810E, SECTION 507.3, PROCEDURE III - AGGRAVATED CYCLE, 10 CYCLES	Coating:	MIL-C-18197A

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Regulatory Compliance

Certificate of Conformance:	View
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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

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Product Details

- OD ≥ 8 Blocking and >95% Minimum Peak Transmission in the Passband
- Designed for Common qPCR Fluorophores
- Excitation Filters and Emission Filters Available

OD8 Fluorescence Bandpass Filters deliver superior OD ≥ 8 blocking in their blocking band while offering high transmission in their transmission band. These hard-coated interference filters feature high-precision spectral consistency and enable industry leading signal-to-noise system performance and low crosstalk. They are available in black anodized aluminum mounts or unmounted in 6 x 6mm wafers for easy system integration. OD8 Fluorescence Bandpass Filters are ideal components in applications relying on fluorescence detection that require precision spectral clean-up, such as biomedical diagnostics instruments including DNA sequencers and polymerase chain reaction (PCR) analyzers. These filters are designed with passbands for the fluorescence excitation and emission of common qPCR fluorophores in mind, namely FAM, HEX, ROX and Cy5.

Technical Information

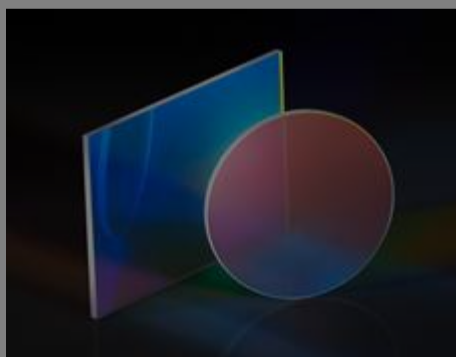
Overlay FAM Absorption & Emission with Excitation and Emission Filters

Overlay HEX Absorption and Emission with Excitation and Emission Filters

Overlay ROX Absorption and Emission with Excitation and Emission

Overlay Cy5 Absorption and Emission with Excitation and Emission Filters

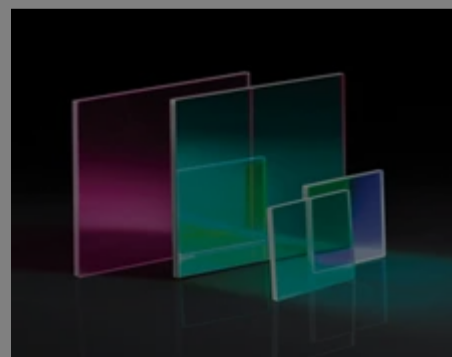
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Fluorescence Bandpass Filters

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FAQ

What type of material should I look for in a filter?

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