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TECHSPEC® 830nm CWL, 50mm Dia, 3.0 FWHM, Hard Coated Laser Clean-Up Filter

Stock **#68-919** CLEARANCE **6 In Stock**

Additional Bandwidths

- 1 + **A$630.40**

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Volume Pricing	
Qty 1+	**A$630.40** each
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General

Type:
Bandpass Filter

Physical & Mechanical Properties

Diameter (mm):
50.00 +0.0/-0.1

Clear Aperture (%):
>90

Parallelism (arcsec):
<30

Optical Properties

Angle of Incidence (°):
0.00

Optical Density OD (Average):
≥4.0

Center Wavelength CWL (nm):
830.00

Design Wavelength DWL (nm):
830

Full Width-Half Max FWHM (nm):
3.00

Full Width-Half Max FWHM Tolerance (nm):
±1.0

Substrate:
Fused Silica (Corning 7980)

Minimum Transmission (%):
>80

Coating:
Hard Coated

Surface Quality:
60-40

Blocking Wavelength Range (nm):
700 - 821 & 839 - 1200

Transmitted Wavefront, RMS:
λ/4

Angle of Incidence Tolerance (°):
±5.0

Threading & Mounting

Mount Thickness (mm):
3.5

Regulatory Compliance

Certificate of Conformance:
View

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

- Narrow Bandwidths for Gas and Solid State Lasers
- Broad Bandwidths for Diode Laser Clean-Up
- High Transmission, Deep Blocking

TECHSPEC® Hard Coated Laser Clean-Up Filters provide high transmission of designated wavelengths with deep blocking of unwanted wavelengths. Designed for use with high performance laser systems, TECHSPEC Hard Coated Laser Clean-Up Filters feature hard, durable coatings on a single substrate to ensure reliable performance over extended lifetimes. Optical filters with narrow bandwidths of 3 – 5nm are ideal for eliminating noisy spontaneous emission from laser sources, while filters with broad bandwidths are designed for use with diode wavelengths to eliminate background noise when detecting the laser source in order to improve the system's signal-to-noise ratio. TECHSPEC Hard Coated Laser Clean-Up Filters feature maximum blocking within a few nanometers of the laser wavelength, making these laser filters ideal for the most demanding laser-based instrumentation or applications.

Compatible Mounts

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