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**TECHSPEC® 514.5nm CWL, 12.5mm Dia, 3.0 FWHM, Hard Coated Laser Clean-Up Filter**



Stock #68-842 CLEARANCE 20+ In Stock

[Additional Bandwidths](#)

⊖ 1 ⊕ S\$134<sup>00</sup>

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**General**

Bandpass Filter Type:

**Physical & Mechanical Properties**

12.50 +0.0/-0.1 Diameter (mm):

>90 Clear Aperture (%):

<30 Parallelism (arcsec):

## Optical Properties

0.00 **Angle of Incidence (°):**

≥4.0 **Optical Density OD (Average):**

514.50 **Center Wavelength CWL (nm):**

514.5 **Design Wavelength DWL (nm):**

3.00 **Full Width-Half Max FWHM (nm):**

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

**Substrate:**   
[Fused Silica](#) (Corning 7980)

>80 **Minimum Transmission (%):**

Hard Coated **Coating:**

60-40 **Surface Quality:**

400 - 509 & 520 - 700 **Blocking Wavelength Range (nm):**

λ/4 **Transmitted Wavefront, RMS:**

±5.0 **Angle of Incidence Tolerance (°):**

## Threading & Mounting

3.5 **Mount Thickness (mm):**

## Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[Compliant](#) **Reach 209:**

[View](#) **Certificate of Conformance:**

## 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.

**LASER OPTICS** MADE BY EDMUND OPTICS®

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## Compatible Mounts