

12.4µm CWL, 25.0mm Diameter, 0.25µm FWHM, IR Bandpass Filter



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1

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₹78,300

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SPECIFICATIONS

General

Bandpass Filter

Type:

Typical Applications:

Atmospheric/Solar Imaging	
Physical & Mechanical Properties	
25.00 +0.00/-0.20	Diameter (mm):
20.0	Clear Aperture CA (mm):
1.00 ±0.2	Thickness (mm):
Optical Properties	
0	Angle of Incidence (°):
≥3.0	Optical Density OD (Average):
12,400.00 ±124	Center Wavelength CWL (nm):
500.00 ±50	Full Width-Half Max FWHM (nm):
Germanium (Ge)	Substrate:
Traditional Coated	Coating:
80-50	Surface Quality:
≥65 (at peak)	Transmission (%):
200 - 16000	Blocking Wavelength Range (nm):
12.40 ±0.124	Center Wavelength CWL (μm):
0.25 ±0.05	Full Width-Half Max FWHM (μm):
Regulatory Compliance	
Compliant	RoHS:
View	Certificate of Conformance:

PRODUCT DETAILS

- Ideal for Gas Analysis
- Center Wavelengths of 2.7-12.4μm
- Single Substrate Interference Filter

Infrared (IR) Bandpass Filters, developed with durability in mind, provide the high transmission and deep rejection needed to isolate narrow spectral regions. The single substrate dielectric construction ensures easy maintenance, allowing for use in harsh environments. The filters are ideal for environmental monitoring, security and FLIR applications. Infrared (IR) Bandpass Filters have center wavelengths of 2.7-12.4μm. These filters are available in a 12.5, 25, or 50mm diameters, in a variety of center wavelengths.

[Bandpass interference filters](#) are used extensively in a variety of biotech, biomedical, and quantitative chemical applications to selectively transmit a narrow range of wavelengths while blocking all others. Interference filters are widely used in instrumentation for applications including clinical chemistry, environmental testing, colorimetry, elemental and laser line separation, flame photometry, fluorescence, and immunoassays. In addition, interference filters are used to select discrete spectral lines from arc or gas discharge lamps, including Hg, Xe, and Cd, and to isolate a particular line from Ar, Kr, Nd:YAG, and other lasers. Bandpass interference filters are often used in conjunction with [laser diode modules](#) and [LEDs](#).

TECHNICAL INFORMATION



