

INFRARED FILTERS & COATINGS

STANDARD IR BANDPASS FILTERS



Standard IR Bandpass Filters

Bandpass filters isolate specific regions of the spectrum, simultaneously providing high transmission of desired energy, and deep rejection of unwanted energy. Available in wide or narrow bandwidths, they can be tailored to suit your specific requirements.

Constructed of hard, durable first-surface dielectric coatings on optical-quality, IR-transmitting substrates, these filters will withstand normal cleaning and handling associated with any high-quality optical component.

Our standard IR bandpass filters are 25mm in diameter. However, we can produce custom sizes and shapes, as well as custom optical characteristics. Contact our technical sales department for a quotation.

- Useful for isolating narrow spectral regions
- Constructed of hard, durable first-surface coatings
- Available in standard and custom wavelengths up to 14 μ m

General Specifications

Diameter Tolerance:	+0/-0.1mm
Min. Clear Aperture	21mm Dia.
Transmission (Typ.):	75% min, 90% typical
Blocking:	T < 0.1% Average to 30 μ m
24-hour Humidity:	per MIL-C-48497A
Moderate Abrasion:	per MIL-C-48497A
Adhesion:	per MIL-C-48497A

Applications

Environmental
Monitoring
Security Systems
FLIR Systems
Avionics

STANDARD IR GAS ANALYSIS BANDPASS FILTERS

Gas	Center W/L	Bandwidth	Blocking
Water Vapor	2.70 \pm .03 μ m	110 \pm 30nm	UV to 30 μ m
	2.95 \pm .03 μ m	110 \pm 30nm	UV to 30 μ m
Methane and Ethanol	3.46 \pm .04 μ m	140 \pm 30nm	UV to 30 μ m
Formaldehyde	3.60 \pm .04 μ m	140 \pm 30nm	UV to 30 μ m
SWIR	4.00 \pm .20 μ m	2000 \pm 200nm	UV to 7 μ m
CO ₂	4.26 \pm .04 μ m	120 \pm 30nm	UV to 30 μ m
CO	4.67 \pm .05 μ m	150 \pm 30nm	UV to 30 μ m
NO	5.30 \pm .05 μ m	420 \pm 50nm	UV to 30 μ m
FIR Broadband	10.0 \pm .30 μ m	4000 \pm 500nm	UV to 17 μ m
CO ₂	10.6 \pm .10 μ m	1500 \pm 100nm	UV to 16.5 μ m