

# Infrared bandpass filter



## Mid-far infrared filter

A filter with cutoff areas on both sides of the transmission band of the spectral characteristic curve is called a bandpass filter, which is often used to transmit a part of the spectrum while cutting off all other wavelengths. Bandpass filters are an important type of optical thin film components.

Infrared Detectors



Infrared gas analyzer



Security Monitoring



Medical instruments



Industrial temperature measurement



## Feature

- High transmittance
- Low temperature drift
- High cutoff depth
- Film layer is firm

## Product parameters

Product Name	Material	Transmission area	Average transmittance	Cutoff area
WBP 3-5 $\mu$ m	Monocrystalline silicon	3-5 $\mu$ m	> 85%	0.4-2.6 $\mu$ m & 5.6-11 $\mu$ m, T < 1%
WBP 8-9.45 $\mu$ m	Germanium	8-9.45 $\mu$ m	> 90%	0.4-7.6 $\mu$ m & 9.6-14 $\mu$ m, T < 1%
WBP 8-14 $\mu$ m	Zone melt silicon	8-14 $\mu$ m	> 80%	0.4-7.6 $\mu$ m & 15-22 $\mu$ m, T < 1%
WBP 12.4-13.8 $\mu$ m	Germanium	12.4-13.8 $\mu$ m	> 80%	0.4-11.8 $\mu$ m & 14.5-16 $\mu$ m, T < 1%
WBP 3.5-4.15 $\mu$ m	Sapphire	3.5-4.15 $\mu$ m	> 93%	0.4-3.3 $\mu$ m & 4.2-25 $\mu$ m, T < 1%

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