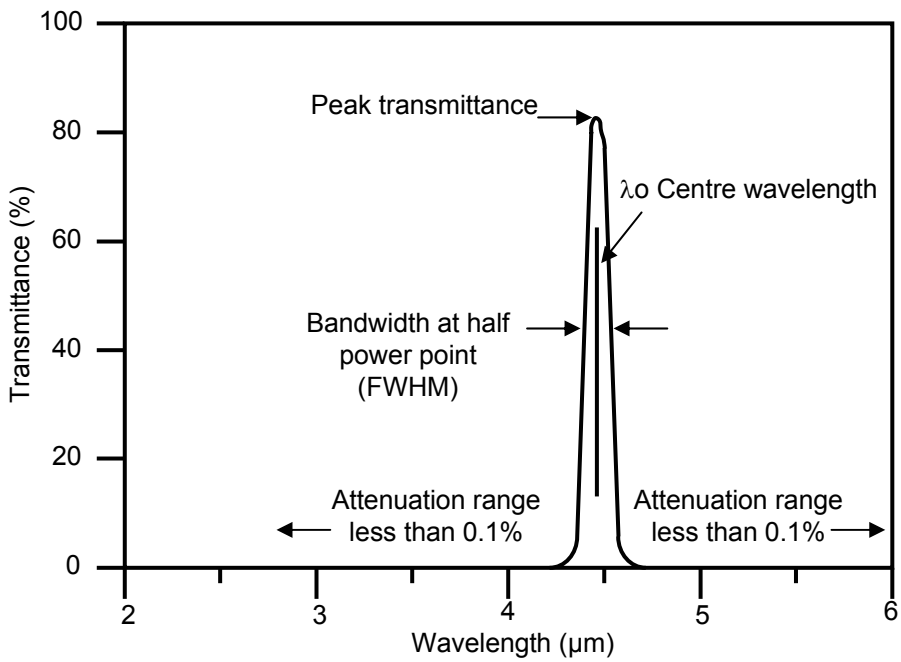
NARROW BANDPASS FILTERS



Narrow bandpass filters are designed to isolate a narrow region of the infrared spectrum. This is accomplished using a complex process of constructive and destructive interference. Narrow bandpass filters have bandwidths (measured at half-peak transmittance levels) less than 6% of the centre of wavelength value. When ordering, the bandwidth can be expressed as a percentage of the centre wavelength, or can be given in microns. The filters exhibit high peak transmission (typically greater than 60%) combined with high attenuation levels outside the passband (typically less than 0.1%).

TYPICAL PERFORMANCE



TYPICAL CHARACTERISTICS

Available wavelength range	~2 to 20μm
Tolerance on CWL	To customers requirements, but standard tolerances are typically +/-0.3% for a 1% bandwidth filter to +/-1% for a 6% bandwidth filter
Peak transmittance	Typically >60% (depending on wavelength and bandwidth)
Available bandwidths	Typically 0.9% to 6%
Blocking (attenuation)	Typically <0.1% from 0.3μm to far infrared.

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