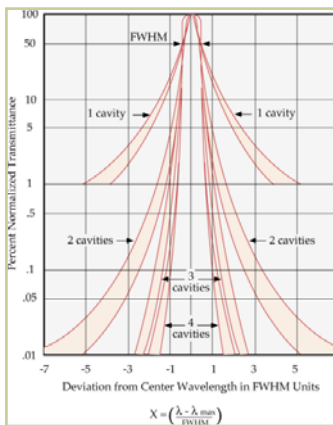


Bandpass Interference Filters

Bandpass Interference Filters are based on the Fabry-Perot effect. Stacks of reflective thin films are arranged to reinforce transmittance at a particular centre wavelength (CWL) and to cancel out at other wavelengths. Two stacks of reflective

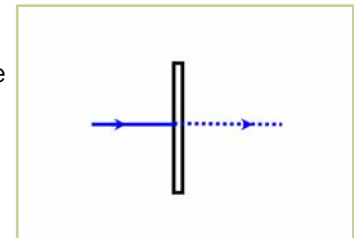


films separated by a half wave spacer form a cavity. Two or three cavities are usually superimposed to increase the rejection as shown in the graph.

The bandwidth of the filter is normally specified as the full width at half maximum (FWHM). Typical values are 10nm and 40nm. To eliminate far off regions of the spectrum a glass blocking layer is bonded to the filter. These filters are designed for use at normal incidence but if tilted the centre wavelength will shift towards shorter wavelengths. They will operate over a wide range of temperature but as the temperature is increased the centre wavelength



will move to longer wavelength and the bandwidth will be increased.



Standard filter diameters are 25.4mm or 50.8mm but other sizes can be accommodated on request.

Typical Specifications

Material:	Optical Glass
Centre Wavelength:	+/- 5nm
FWHM:	+/- 5nm
Blocking:	OD >4 from UV to NIR
Peak Transmittance:	>50%
Diameter:	+0 / -0.2 mm
Thickness:	<6.3 mm typ
Surface quality:	80/50
Clear aperture:	> 85% of diameter
Temp Range:	-60 to +70 degC

To request a quote or to order, please specify:

Quantity — Diameter — Centre Wavelength — FWHM — Blocking Range

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For a quotation — please phone, fax or email us with details of your requirements.