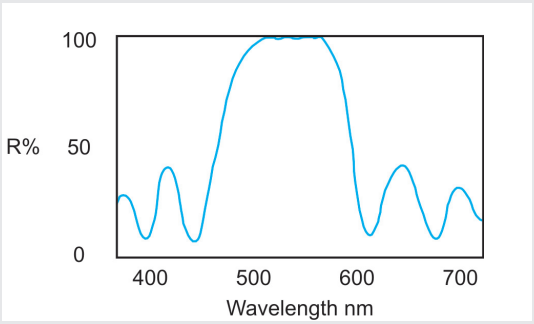
TECHNICAL INFORMATION
Dielectric Mirrors
Data Sheet 206

TMF produces a general range of all dielectric mirrors for applications where high efficiency and minimal absorption is required, such as laser reflectors. Coatings can be generated to give partial or maximum reflectance at discrete wavelengths over the wavelength band 350 to 1600nm.

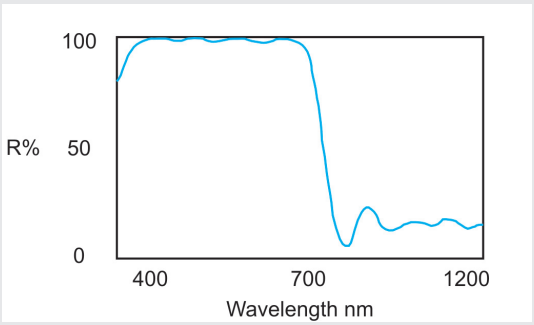
Dielectric

Dielectric stacks can be designed to seperate energy bands and are known as dichroic filters. Typical applications for this type of filter are for use in heat control, commonly referred to as 'hot' and 'cold' mirrors.



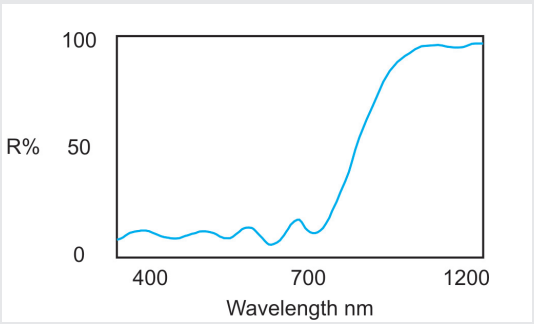
Cold Mirror (Long Wave Pass)

This mirror is designed to reflect only visible light allowing U.V. and I.r. to pass through it. Applications for this type of filter include dental and operating theatre lighting and general projection lamp systems.



Hot Mirror (Short Wave Pass)

Heat energy from a tungsten filament lamp is reflected away from the mirror but allows the visible light to pass through it, thus protecting sensitive components from excessive heat.



Please telephone to discuss any variations in standard coatings that you may require.

thinmetalfilms ltd.
Precision Optical Coating Engineers

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