

IR Neutral Density Filters (Germanium Substrate)

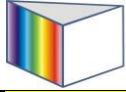
Metallic-coated infrared neutral density filters (IR ND filters) obtain their optical density from a metal alloy coating on a substrate determined by the wavelength region of interest. Unlike the all-dielectric or absorption type, the metallic type ND filter employs a combination of absorption and reflection to reduce the intensity of light.

Infrared Neutral Density Filters are designed to attenuate radiation over a wide spectral range. These filters are coated on germanium substrates. The ND coating is optimized at 2.2 microns and can be used out to 15 microns.

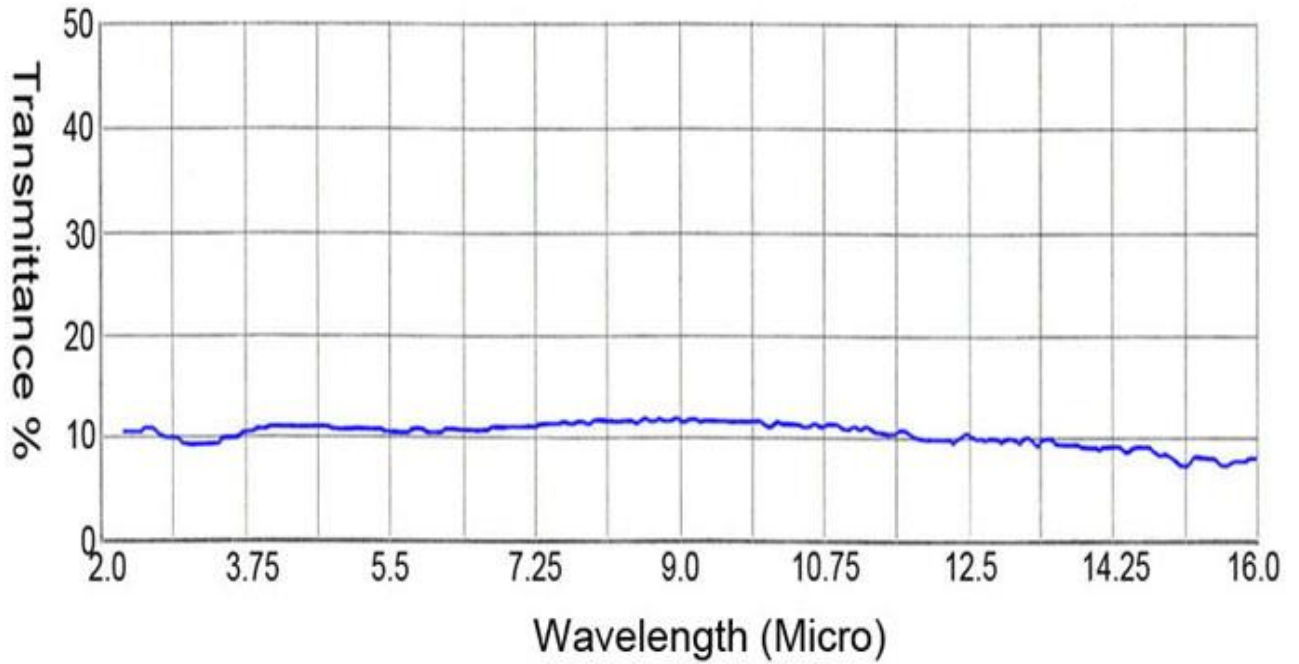


Specifications

Substrates	Germanium
Dimensions	Custom
Transmission	10%, 20% or custom
BBAR Coating on back surface S2	Optional
Dimensional Tolerances	±0.2mm
Clear Aperture	90% of outside dimension
Surface Quality	80/50 S/D
Flatness	2-4 waves per 25mm
Parallelism	3-5 arc minutes
Mechanical	Unmounted



Transmission of IR ND filters (Germanium, T=10%, BBAR coating on back surface S2)



Transmission of IR ND filters (Germanium, T=10%, No BBAR coating on back surface S2)

