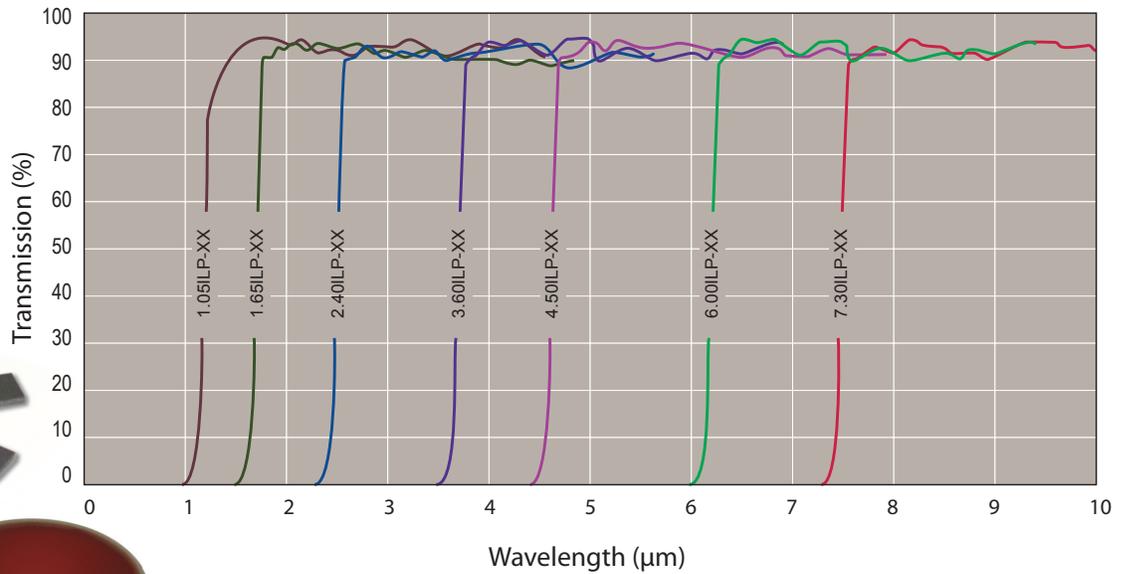


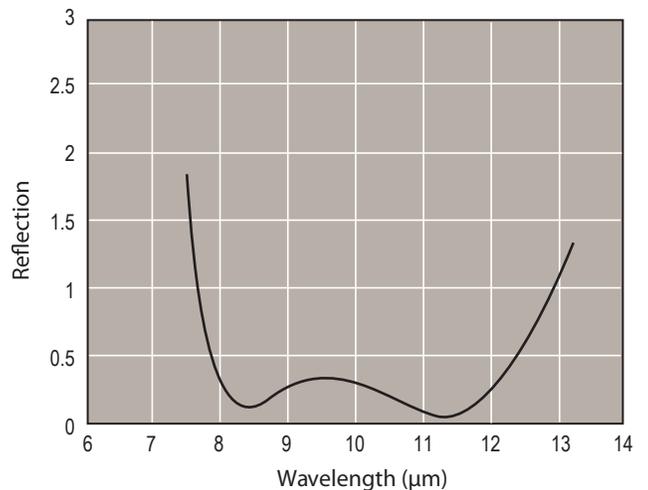
Long Wave Pass Infrared Filters



Andover Corporation's long wave pass filters provide a sharp cut-off below a particular wavelength. Often used for order sorting, they isolate broad regions of the spectrum, simultaneously providing high transmission of desired energy, and deep rejection of unwanted energy.

Broad Band Anti-reflection Coatings (BBARs)

Andover Corporation produces a non-radioactive dielectric multilayer coating designed to reduce the reflection of Germanium, Silicon, and other IR substrates. For Germanium substrates, reflection is reduced from 36% per surface to less than 1%. All our Broad Band Anti-reflection coatings (BBARs) meet military specification MIL-C-48497.



Why Choose Andover?

Utilizing various coating technologies (such as magnetron sputtering and electron-beam with ion assist) designed specifically for the infrared, Andover Corporation specializes in infrared coatings from the near infrared out to 14μm. Constructed of hard, durable first-surface dielectric coatings on optical-quality infrared substrates, our infrared products will withstand cleaning and handling associated with any high-quality optical component.



NEW Product!

Our Infrared Neutral Density (IRND) filters are now available with a back-surface anti-reflection coating as an additional option. The standard IRND filters consist of an attenuating film on one side of a Germanium substrate leaving the other surfaces uncoated. Both the attenuating surface and the uncoated Germanium surface are partially reflective. This can create what is known as an etalon effect due to interference between the beams reflected from each surface. The etalon effect can produce fringe artifacts in images and intensity variations with wavelength. The anti-reflection coating lowers the reflection of the uncoated surface thereby greatly reducing the intensity of one of the interfering beams, and effectively disabling the etalon effect.

Standard Infrared Bandpass Filters



Andover offers a competitive line of standard infrared bandpass filters. Meant to isolate specific regions of the spectrum, these filters simultaneously provide high transmission and

deep rejection. We offer our standard infrared bandpass filters in narrow or wide bandwidths, and they can be custom-fabricated to suit your specific requirements.

Infrared Neutral Density Filters



Andover Corporation's metallic-coated neutral density 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 our metallic ND filters employ a combination of absorption and reflection to reduce the intensity of infrared light.

Custom Infrared Coatings



Andover Corporation offers custom infrared optical coatings on a variety of substrates in various shapes and sizes to function as AR coatings, bandpass, long and short pass, dichroics, and more. While generally operating at 0 to 45, the coatings can

be optimized for any particular angle or range of angles of incidence. Some of our specialized custom infrared optical coatings include Dual-Band Filters, Dichroic Beamsplitters, and Ultra-Narrowband Filter.

Common IR Applications

- Infrared Astronomy
- Weapons System
- Surveillance and Targeting
- Air/Water/Gas Analysis
- Thermal Imaging
- Detector and Dewar Windows

