

# Anti-Reflection Coatings For Glass Optical Components

Coatings  
#229, #269 & #289



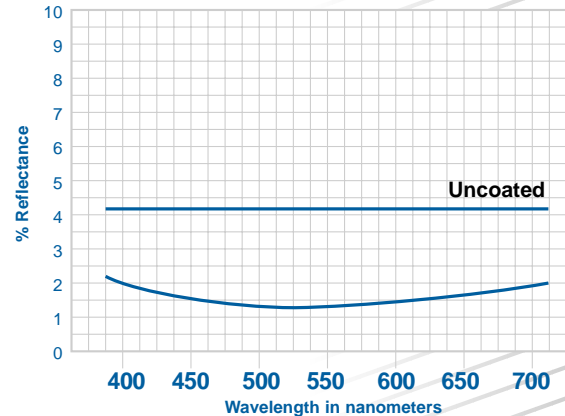
## General Description

Several anti-reflection designs suitable for glass optical elements, display windows and laser optics are available. ECI #229 and #289 are broad-band coatings commonly used to reduce first surface reflection across the visible spectrum. These coatings will improve contrast, reduce glare and improve transmission through optical surfaces. ECI #269 is a “V-coat” low reflection coating especially suited for laser, laser diode and other narrow-band applications.

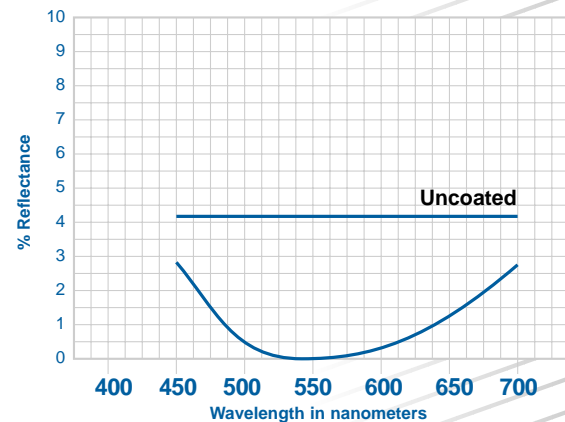
- **ECI #229** is a single layer Magnesium Fluoride coating that provides a minimum first-surface reflection of 1.4% on glass substrates with an index of refraction of 1.52. Higher index glasses result in lower reflection values. This coating conforms to the reflection and environmental requirements of MIL-C-675.
- **ECI #269** is a special narrow-band low reflection coating that can reduce first-surface reflection to less than 0.15% at the peaking wavelength. This coating can be optimized for use on many types of glass substrates including high and low index materials, laser rods, and GRIN rod lenses. Designs specifically for high power laser applications are available.
- **ECI #289** is a multi-layer broad-band coating used on optical components that demand the lowest possible first-surface reflection and maximum light transmission. ECI #289 meets the reflection and environmental requirements of MIL-C-14806A. Designs are available for various glass indices, angles of incidence, polarization requirements and wavelength regions. We also have broad-band designs for other wavelength regions such as 375-575nm, 600-1000nm and 1250-1600nm. Custom designs are available.

These coatings are suitable for laser applications, industrial instrumentation, medical optics and fiberoptic components.

ECI #229



ECI #269



ECI #289

