

# Attenuation Coatings for Fiberoptic Components

Coatings  
#2005



## General Description

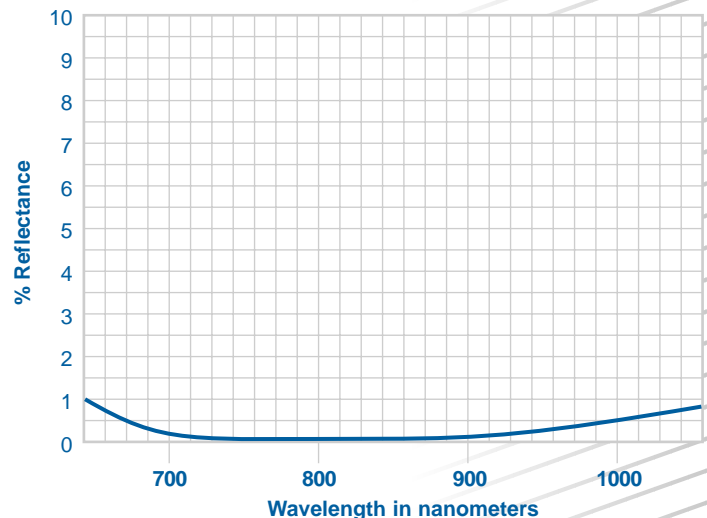
ECI offers special **low reflection** attenuation designs for deposition onto injection molded plastic, glass/metal TO can assemblies, fiber ends and glass fabricated to your requirements. These designs are commonly used on components in front of lasers or detectors to reduce energy levels to safe or acceptable levels while minimizing back reflection. These coatings can be designed for most any transmission value and typically have back reflection greater than 20 decibels. Custom designs are available if a specific amount of back-reflection is desired. All coatings are optimized for angle of incidence, wavelength region, incident medium and front or back surface use.

The typical design illustrated at right has a transmission of 20% and first-surface reflection less than 1.0% from 800 to 900nm.

These films are deposited at low temperature to minimize process contamination concerns from epoxies, cladding or polymer optics. Our high energy deposition process produces very dense and stable films that will survive typical industry environmental testing.

ECI has experience fixturing fiberoptic components for low or high volume production requirements. We will recommend packaging methods that minimize handling and reduce cost. Contact one of our sales engineers to discuss your particular needs.

Attenuation: Reflectance



Attenuation: Transmittance

