

High-Efficiency Broadband Anti-Reflective (BBAR) Coating on Germanium (Ge), 8 - 12 μm

COATING DATA SHEET

Application

This low reflection/high transmission coating is designed to cover the 8-12μm region and satisfies the environmental requirements listed below.

This low reflectance coating is intended to be used in FLIR or passive radiation systems.

Spectral Performance

Transmission when measured through a 1mm thick Ge substrate coated on both surfaces with the broadband AR coating.

$T \geq 98\%$ average from 8 - 12μm

Reflection from a single surface when coated with the broadband AR coating.

$R \leq 0.5\%$ average per surface from 8 - 12μm

This coating can be modified for similar performance at other wavelengths.

Environmental Performance

This coating is designed to meet durability requirements of the following MIL specifications:

Adhesion MIL-C-48497
MIL-C-675C

Humidity MIL-C-48497
MIL-C-675C

Moderate Abrasion MIL-C-48497
MIL-C-675C

II-VI will supply certification upon request.

