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

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.

\[ T \geq 98\% \text{ average from 8 - 12}\mu m \]

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

\[ R \leq 0.5\% \text{ average per surface from 8 - 12}\mu m \]

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: MIL-C-48497
- Abrasion: MIL-C-675C

II-VI will supply certification upon request.