

## High-Efficiency Dual Broadband (DBBAR) Coating on Germanium (Ge) for 3 - 5μm and 8 - 12μm

COATING DATA SHEET

### Application

This coating is designed to give low reflectance and high transmittance when used in passive imaging systems. This coating is not intended for high power laser applications.

### Spectral Performance

Transmission when measured on a 3mm thick Ge substrate coated on both surfaces with the dual broadband AR coating.

T ≥ 90% average from 3 - 5μm  
 T ≥ 95% average from 8 - 12μm

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

R ≤ 5.0% average from 3 - 5μm  
 R ≤ 2.5% average 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<br>MIL-C-675C |
| Humidity          | MIL-C-48497<br>MIL-C-675C |
| Moderate Abrasion | MIL-C-48497<br>MIL-C-675C |

II-VI will supply certification on request.

