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## **TECHNICAL DATA SHEET**

### **8-12 $\mu$ m Broadband Anti-Reflective Coating on Germanium**

#### **Overview**

This anti-reflective/high transmission thin-film coating is optimized to cover the 8-12 $\mu$ m LWIR region and conforms to the multiple environmental requirements. Typically this coating is utilized in Forward Looking Infrared (FLIR) and or passive thermal radiation systems.

#### **Spectral Performance**

Transmission as measured through dual surface coated Ge witness sample:

- T  $\geq$ 98.0% average from 8-12 $\mu$ m at standard incidence.

Reflection as measured from a single surface coated Ge witness sample:

- R  $\geq$ 0.5% average from 8-12 $\mu$ m at standard incidence.

As with virtually all of NACL's coatings, this formula can be modified for similar performance at other wavelengths.

#### **Mechanical and Environmental Requirements**

This coating is designed to meet durability requirements of the following Military Specifications:

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

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

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

This formula can be modified for Severe Abrasion performance on Ge; however, the spectral performance may be affected. Contact us now for any questions on this or any other coatings we offer.

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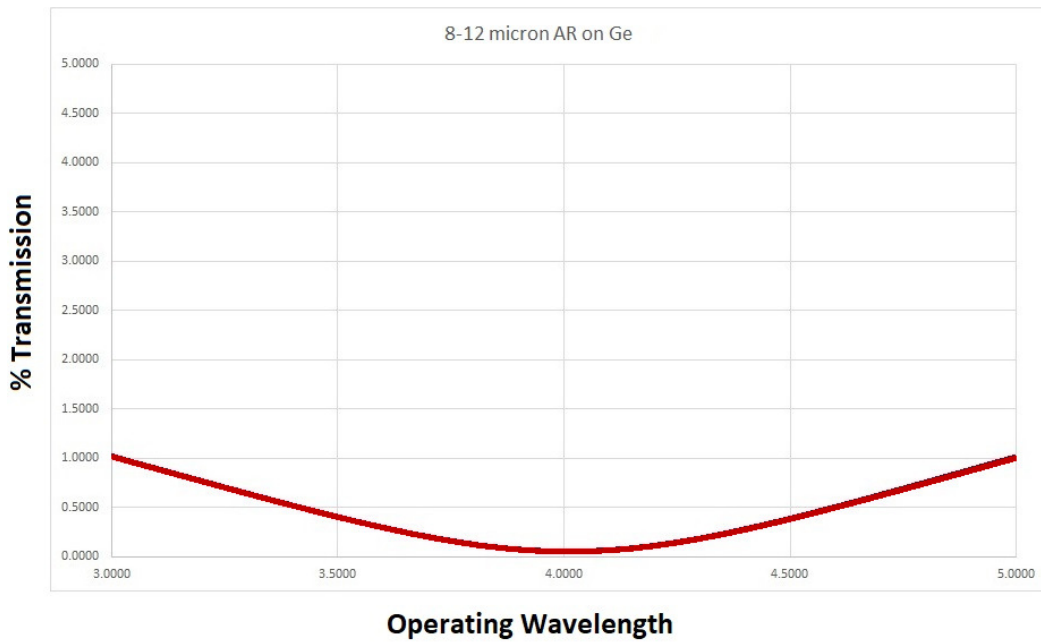
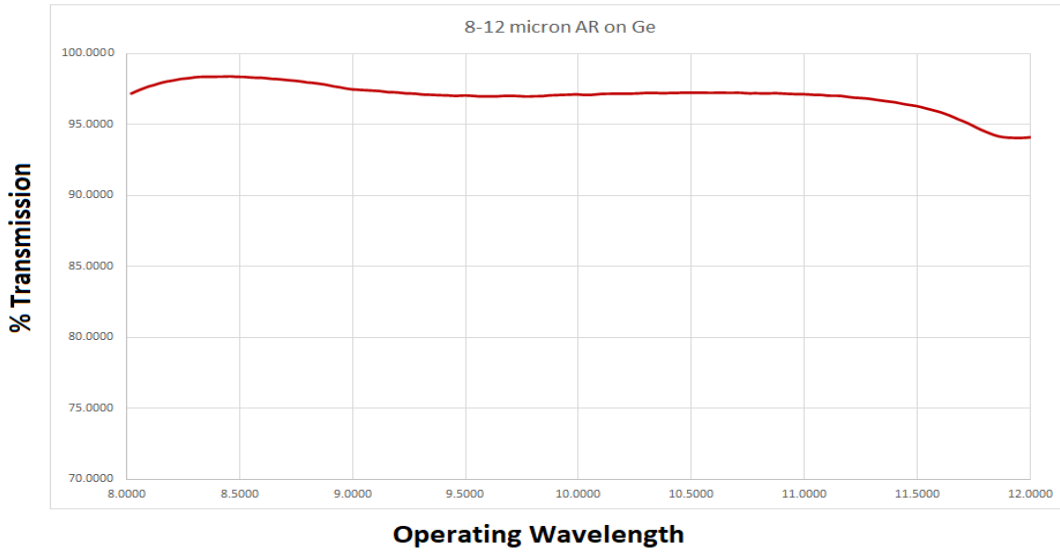
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## Spectral Performance Curves



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