

# CO 4008 Ge Dual band

Dual band antireflection coating  
for Germanium  
3 - 5  $\mu\text{m}$  and 8 - 12  $\mu\text{m}$

## DESCRIPTION

This coating is designed for applications requiring transmission in both thermal imaging spectral bands.  
This coating does not contain any radioactive materials.

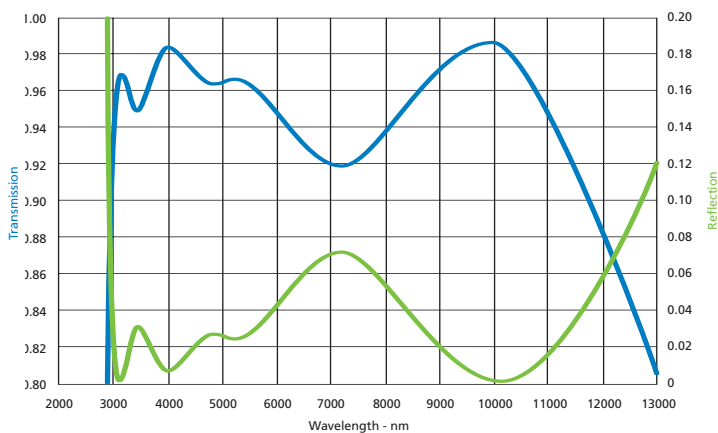
## SPECTRAL PERFORMANCE

Transmission values are for a 1 mm thick Germanium substrate which has been coated on both surfaces with CO 4008  
TRANSMISSION > 95% (average) from 3 - 5  $\mu\text{m}$   
TRANSMISSION > 94% (average) from 8 - 12  $\mu\text{m}$

Reflection values are for a single Germanium surface coated with CO 4008.  
REFLECTION < 2% (average) from 3 - 5  $\mu\text{m}$   
REFLECTION < 2% (average) from 8 - 12  $\mu\text{m}$

## ENVIRONMENTAL PERFORMANCE

The coating will withstand the following environmental tests which will be carried out on a representative witness piece coated in the same batch



ADHESION	MIL-C-48497 TS1888	para 4.5.3.1 para 5.1
HUMIDITY	MIL-C-48497 TS1888	para 4.5.3.2 para 5.2.1.2
ABRASION	MIL-C-48497 TS1888	para 4.5.3.3 para 5.4.1