

## CO 4029 Ge 3-5

High efficiency radioactive free  
antireflection coating for Germanium  
3 - 5  $\mu\text{m}$

### DESCRIPTION

This coating is designed for internal surface (I.S.) applications and offers maximum transmission in the MWIR band. Typically used in thermal imaging systems. The coating does not contain any radioactive materials.

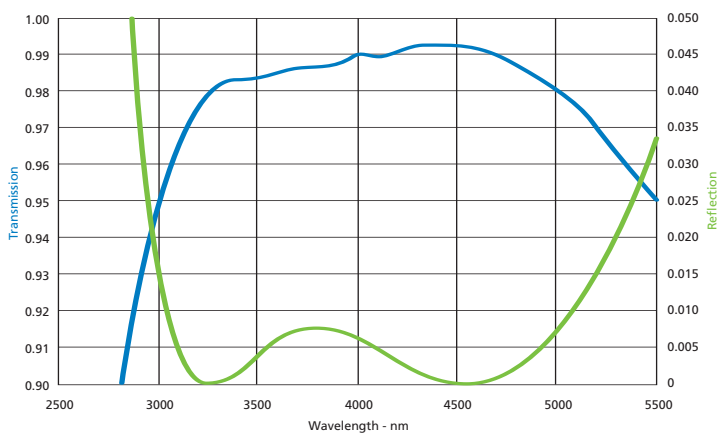
### SPECTRAL PERFORMANCE

Transmission values are for a 1 mm thick Germanium substrate which has been coated on both surfaces with CO 4029.  
TRANSMISSION > 98% (average) from 3 - 5  $\mu\text{m}$

Reflection values are for a single Germanium surface coated with CO 4029.  
REFLECTION < 0.5% (average) from 3 - 5  $\mu\text{m}$

### 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