

## CO 4005 Ge 8-12

High durability antireflection coating  
for Germanium  
8 - 12  $\mu\text{m}$

### DESCRIPTION

This coating is designed for modular interface surface (M.I.S.) applications where maximum external durability is required whilst maintaining high transmission.

### SPECTRAL PERFORMANCE

Transmission values are for a 1 mm thick Germanium substrate which has been coated on both surfaces with CO 4005.

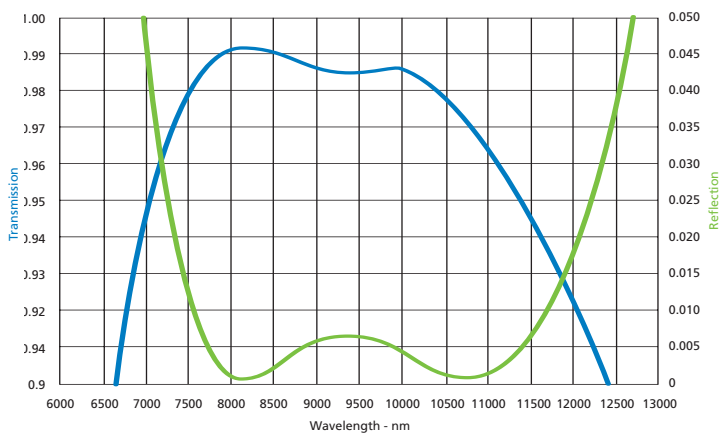
TRANSMISSION > 97% (average) from 8 - 11.5  $\mu\text{m}$

Reflection values are for a single Germanium surface coated with CO 4005.

REFLECTION < 0.5% (average) from 8 - 11.5  $\mu\text{m}$  (typical)

### 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 4.5.5.1 para 5.4.2
SALT SOLUTION	MIL-C-48497 TS 1888	para 4.5.5.2 para 5.2.1.1