

CO 40LWP-C1

Longwave-pass filter for Germanium
8 - 11 μm

DESCRIPTION

This coating is designed for thermal imaging applications and offers maximum transmission combined with a wide blocking band. This coating can operate at 77K and does not contain any radioactive materials.

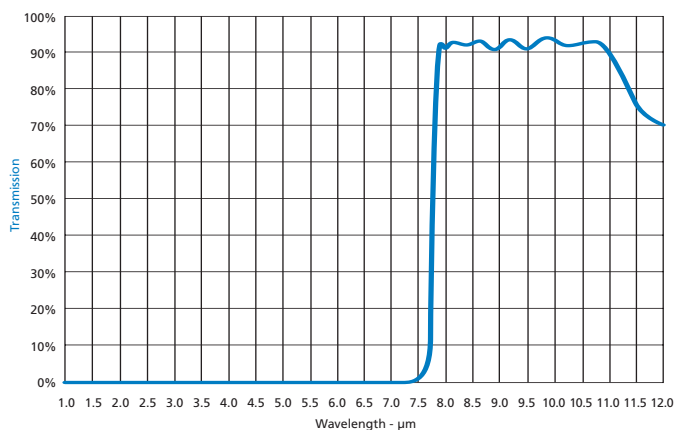
SPECTRAL PERFORMANCE

Transmission values are for a 1 mm thick Germanium substrate.
TRANSMISSION > 90% (average) from 8.0 - 11.0 μm
TRANSMISSION > 85% (absolute) from 8.0 - 11.0 μm
TRANSMISSION < 0.1% (absolute) from Visible - 7.2 μm

This coating is representative of our coating technology and multiple variations can be designed to cover the 6 - 16 μm band.

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 para 4.5.3.1
TS1888 para 5.1

HUMIDITY MIL-C-48497 para 4.5.3.2
TS1888 para 5.2.1.2

ABRASION MIL-C-48497 para 4.5.3.3
TS1888 para 5.4.1

This coating is also unaffected by the following environmental tests which will be performed upon request.

SALT SOLUTION MIL-C-48497 para 4.5.5.2
TS1888 para 5.2.1.1

TEMPERATURE CYCLE MIL-M-13508C para 4.4.4