

CO 40BP-C4

Band-pass filter for Germanium
3.6 - 4.2 μm

DESCRIPTION

This coating is designed for thermal imaging applications and offers maximum transmission combined with wide blocking bands. 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 3.6 – 4.0 μm .

TRANSMISSION > 85% (absolute) from 3.6 – 4.0 μm

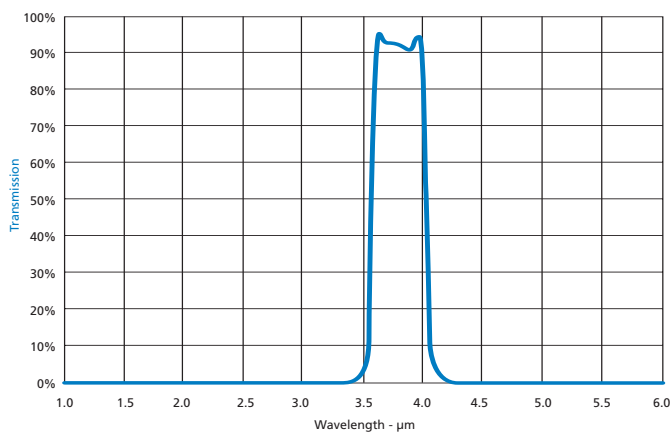
TRANSMISSION < 0.1% (absolute) from Visible – 3.4 μm

TRANSMISSION < 0.1% (absolute) from 4.3 - 6.0 μm

This coating is representative of our coating technology and multiple variations can be designed to cover the 1 - 7 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