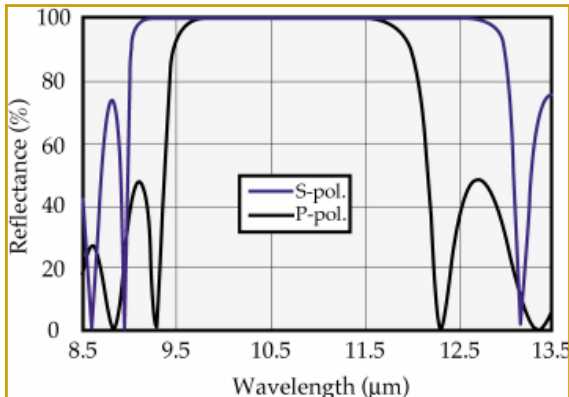


High Power CO₂ Laser

These high reflectance mirrors are intended for use with high power CO₂ lasers.



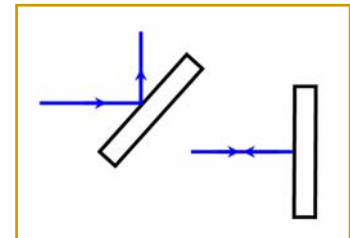
They use dielectric coatings on either Zinc Selenide or Germanium substrates, both of which materials transmit any residual energy.

Mirrors are optimized for use at 10.6 μm wavelength for either 0° or 45° angle of incidence. They are designed to have 99.5% reflectance at 0° or 99.0% minimum reflectance of the p-polarized component at 45°.



Typical diameters offered are: 6.35, 12.7, 19.1, 25.4, 27.9, 38.1, 44.5, 50.8 and 76.2 mm.

Similar mirrors can be provided for other infra-red wavelengths.



Typical Specifications	
Substrate Material:	ZnSe or Ge
Surface flatness:	$\lambda/20$ @ 106 μm
Surface quality:	40/20
Parallelism:	< 3 arcmin
Diameter:	+0.0 / -0.2 mm
Thickness:	± 0.25 mm
Clear aperture:	> 85% of diameter
Reflectance:	R > 99.0%
Absorptance:	< 0.1% for ZnSe
Durability:	MIL-M-13508

To request a quote or to order, please specify:

Quantity — Substrate Material — Diameter — AOI (0 or 45 deg)

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For a quotation — please phone, fax or email us with details of your requirements.