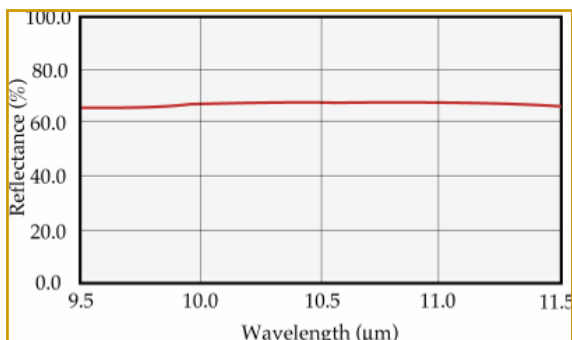


Partial Reflecting CO₂ Laser Beamsplitters



These partial reflectors are intended for use with CO₂ lasers.



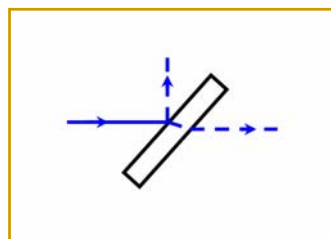
They use all-dielectric coatings on Zinc Selenide, Gallium Arsenide or Germanium substrates. The coating precisely controls the percentage transmittance and reflectance at 10.6µm. They can be supplied for use at 45° or 0° angle of incidence.

Typical Specifications	
Substrate Material:	ZnSe, GaAs, Ge
Surface flatness:	$\lambda/20$ @ 10.6 µm
Surface quality:	40/20
Parallelism:	< 3 arcmin
Diameter:	+0.0 / -0.2 mm
Thickness:	± 0.25 mm
Clear aperture:	> 85% of diameter
Reflectance:	see table
AOI:	0 or 45 deg
Absorptance (ZnSe or GaAs):	< 0.2%
AR coating:	R<0.25%

Reflectance may be chosen

at any value between 5% and 99.5% with the following tolerances:

Reflectance	Tolerance
5%	± 0.5%
6% - 85%	± 3.0%
86% - 95%	± 1.5%
96%-98%	± 1.0%
99%-99.5%	± 0.2%



Standard diameters are 6.3, 9.5, 12.7, 19.1, 25.4 and 27.9mm. Larger diameters (38.1,

50.8, 63.5 and 76.2 mm) are available only on Zinc Selenide.

Thickness varies from 3 to 6 mm as required to preserve the flatness specification.

These partially reflective coatings may be applied to spherical substrates also. Please let us know your precise requirements.

To request a quote or to order, please specify:

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

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