

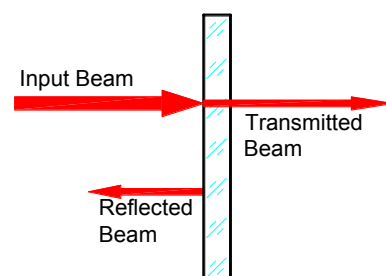
Cavity Optics

Output Coupler-10.6um

Partial reflectors are commonly used as laser output couplers or beam attenuators. Laser output couplers often require a slightly wedged substrate to eliminate interference from multiple reflections inside the component.

Specifications

Diameter Tolerance	+0/-0.13mm
Thickness Tolerance	±0.25mm
FL Tolerance	< +/-2%
Centration	<3 arc minutes
Clear Aperture	>90%
Surface Figure	<λ/2 per 1" Dia@632.8nm
Surface Quality	40-20 scratch and dig
Reflection Tolerance	Up to ±3% @10.6um



Part No.	Material	Diameter (mm)	Thickness (mm)	Side 1 Radius	Side 1 Reflectivity (%R)
OCZ-0.5-2-99.5%R	ZnSe	12.7	2.0	Plano	99.50%
OCZ-0.5-3-50%R	ZnSe	12.7	3.0	Plano	50%
OCZ-0.5-3-64%R	ZnSe	12.7	3.0	Plano	64%
OCZ-0.5-3-70%R	ZnSe	12.7	3.0	Plano	70%
OCZ-0.5-3-80%R	ZnSe	12.7	3.0	Plano	80%
OCZ-0.5-3-85%R	ZnSe	12.7	3.0	Plano	85%
OCZ-0.5-3-90%R	ZnSe	12.7	3.0	Plano	90%
OCZ-0.5-3-95%R	ZnSe	12.7	3.0	Plano	95%
OCZ-0.75-2-85%R	ZnSe	19.1	2.0	Plano	85%
OCZ-0.75-3-50%R	ZnSe	19.1	3.0	Plano	50%
OCZ-0.75-3-70%R	ZnSe	19.1	3.0	Plano	70%
OCZ-0.75-3-75%R	ZnSe	19.1	3.0	Plano	75%
OCZ-0.75-3-80%R	ZnSe	19.1	3.0	Plano	80%
OCZ-0.75-3-85%R	ZnSe	19.1	3.0	Plano	85%
OCZ-0.75-3-90%R	ZnSe	19.1	3.0	Plano	90%
OCZ-0.75-3-95%R	ZnSe	19.1	3.0	Plano	95%
OCZ-1-3-17%R	ZnSe	25.4	3.0	Plano	17%
OCZ-1-3-50%R	ZnSe	25.4	3.0	Plano	50%
OCZ-1-3-60%R	ZnSe	25.4	3.0	Plano	60%
OCZ-1-3-70%R	ZnSe	25.4	3.0	Plano	70%
OCZ-1-3-75%R	ZnSe	25.4	3.0	Plano	75%
OCZ-1-3-80%R	ZnSe	25.4	3.0	Plano	80%
OCZ-1-3-85%R	ZnSe	25.4	3.0	Plano	85%
OCZ-1-3-95%R	ZnSe	25.4	3.0	Plano	95%

Part No.	Material	Diameter (mm)	Thickness (mm)	Side 1 Radius	Side 1 Reflectivity (%R)
OCZ-1-3-99.5%R	Ge	25.4	3.0	10MCC	99.50%
OCZ-1.1-5.6-60%R	ZnSe	27.9	5.6	Plano	60%
OCZ-1.1-5.6-70%R	ZnSe	27.9	5.6	Plano	70%
OCZ-1.1-6-50%R	ZnSe	27.9	6.0	Plano	50%
OCZ-1.1-6-70%R	ZnSe	27.9	6.0	Plano	70%
OCZ-1.1-6-99.5%R	Ge	27.9	6.0	20MCC	99.50%
OCZ-1.18-3-50%R	ZnSe	30.0	3.0	Plano	50%
OCZ-1.5-3-50%R	ZnSe	38.1	3.0	Plano	50%
OCZ-1.5-3-70%R	ZnSe	38.1	3.0	Plano	70%
OCZ-1.5-3-75%R	ZnSe	38.1	3.0	Plano	75%
OCZ-1.5-3-80%R	ZnSe	38.1	3.0	Plano	80%
OCZ-1.5-3-85%R	ZnSe	38.1	3.0	Plano	85%
OCZ-1.5-3-90%R	ZnSe	38.1	3.0	Plano	90%
OCZ-1.5-3-95%R	ZnSe	38.1	3.0	Plano	95%
OCZ-1.5-5-40%R	ZnSe	38.1	5.0	20MCC	40%
OCZ-1.5-5-57%R	ZnSe	38.1	5.0	20MCC	57%
OCZ-1.5-6-17%R	ZnSe	38.1	6.0	10MCC	17%
OCZ-1.5-6-30%R	ZnSe	38.1	6.0	10MCC	30%
OCZ-1.5-6-40%R	ZnSe	38.1	6.0	Plano	40%
OCZ-1.5-6-99%R	ZnSe	38.1	6.0	20MCC	99%
OCZ-1.5-8-40%R	ZnSe	38.1	8.0	Plano	40%
OCZ-1.5-8-50%R	ZnSe	38.1	8.0	Plano	50%
OCZ-1.5-8-60%R	ZnSe	38.1	8.0	Plano	60%
OCZ-1.75-6.35-35%R	ZnSe	44.5	8.0	Plano	35%
OCZ-2-5-50%R	ZnSe	50.8	5.0	Plano	50%
OCZ-2-5-70%R	ZnSe	50.8	5.0	Plano	70%
OCZ-2-5-75%R	ZnSe	50.8	5.0	Plano	75%
OCZ-2-5-80%R	ZnSe	50.8	5.0	Plano	80%
OCZ-2-5-85%R	ZnSe	50.8	5.0	Plano	85%
OCZ-2-5-90%R	ZnSe	50.8	5.0	Plano	90%
OCZ-2-5-95%R	ZnSe	50.8	5.0	Plano	95%

Ge/ZnSe Rear Mirror-10.6um

Part No.	Material	Diameter (mm)	Thickness (mm)	Remark	Reference	OEM
PRZ-1-6/65%R	ZnSe	25.4	6.0	30MCC, 65%R	2785	-
RGE-1-6/15M	Ge	25.4	6.0	15MCC, 99.5%R	2786	Bystronic
RGE-1.1-6	Ge	27.9	6.0	99.5%R@10.6um	-	Fanuc
RGE-1.1-5.6	Ge	27.9	5.6	99.5%R@10.6um	-	Mazak
RGE-1.5-8	Ge	38.1	8.0	99.5%R@10.6um	-	Fanuc



Optics Leading the Light

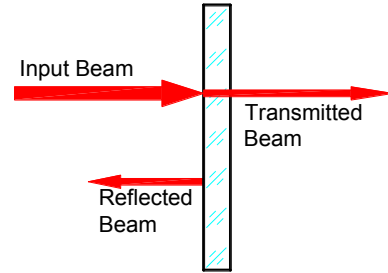
RONAR-SMITH® Laser Optics & IR Imaging



Introduction

Specifications

Diameter Tolerance	+0/-0.13mm
Thickness Tolerance	±0.25mm
FL Tolerance	< +/-2%
Centration	<3 arc minutes
Clear Aperture	>90%
Surface Figure	<λ/2 per 1" Dia@632.8nm
Surface Quality	40-20 scratch and dig
Reflection Tolerance	Up to ±3% @1064nm



RONAR-SMITH® Laser Optics

Optics for Medical Laser System

Output Coupler-1064nm

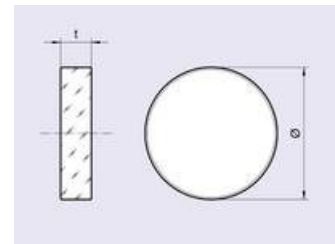
Part No.	Diameter (mm)	Thickness (mm)	Reflectivity (%R)
RFS-0.5-6.35-65%R	12.7	6.4	65%
RFS-0.5-6.35-80%R	12.7	6.4	80%
RFS-0.5-6.35-85%R	12.7	6.4	85%
RFS-0.5-6.35-90%R	12.7	6.4	90%
RFS-0.5-6.35-95%R	12.7	6.4	95%
RFS-0.75-9.5-30%R	19.1	9.5	30%
RFS-0.75-9.5-70%R	19.1	9.5	70%
RFS-0.75-9.5-80%R	19.1	9.5	80%
RFS-0.75-9.5-85%R	19.1	9.5	85%
RFS-20-5-80%R	20.0	5.0	80%
RFS-20-5-85%R	20.0	5.0	85%
RFS-1.0-9.5-17%R	25.4	9.5	17%
RFS-1.0-9.5-20%R	25.4	9.5	20%
RFS-1.0-9.5-25%R	25.4	9.5	25%
RFS-1.0-9.5-50%R	25.4	9.5	80%
RFS-1.0-9.5-85%R	25.4	9.5	85%

Optics for Spectroscopy
Semiconductor Biomedical Application Laser

Optical Material

Rear Mirror –1064nm

Rear mirrors are partially reflectors with a very high reflection-to-transmission ratio and key optical components in laser resonators or laser cavities. Rear mirrors are a part of lasing process. Therefore high reflectivity is desired.



Laser Accessories Components

Part No.	Diameter (mm)	Thickness (mm)
RFS-0.5-6.4	12.7	6.4
RFS-0.5-9.5	12.7	6.4
RFS-0.75-6.4	19.1	9.5
RFS-0.75-9.5	19.1	9.5
RFS-20-5	20.0	5.0
RFS-1-6.4	25.4	9.5
RFS-1-9.5	25.4	9.5