

End Mirrors

Material	GE	GaAs
Surface Quality	20-10 scratch and dig	20-10 scratch and dig
Thickness Tolerance	+0mm / -0.1mm	+0mm / -0.1mm
Diameter Tolerance	+0mm / -0.1mm	+0mm / -0.1mm
Mechanical Wedge	< 3' (arc minutes)	< 3' (arc minutes)
Power	2F @ 0.633 μ m	2F @ 0.633 μ m
Irregularity	1F @ 0.633 μ m	1F @ 0.633 μ m
Reflection	99% / 99.5% / 99.7%	99.7%
Absorption	\leq 0.1%	\leq 0.1%
AOI	0°	0°
Side 2 Reflectivity	\leq 0.2%	\leq 0.2%
Clear Aperture	90%	90%

Si, Cu Total Reflectors

Material	Si, Cu
Surface Quality	10-5 scratch and dig
Thickness Tolerance	+0.0 / -0.2mm
Diameter Tolerance	+0.0 / -0.1mm
Mechanical Wedge	<3' (arc minutes)
Power	1F @ 0.633 μ m
Irregularity	0.5F @ 0.633 μ m
Reflection S-pol @10.6 μ m	99.9%
Absorption	0.1%
AOI	45°

For special mirror applications or other coating types please contact your local Ophir agent - www.co2optics.com

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General Specifications

Output Couplers

Material

ZnSe

Surface Quality	10-5 scratch and dig
Thickness Tolerance	$\pm 0.2\text{mm}$
Diameter Tolerance	$+0 / -0.1\text{mm}$
Mechanical Wedge	$<3'$ (arc minutes)
Power	1F @ $0.633\mu\text{m}$
Irregularity	0.5F @ $0.633\mu\text{m}$
S_1 Reflection @ $10.6\mu\text{m}$	30% to 70%
S_1 Reflection Tolerance	$\pm 0.2\%$
S_2 Reflection @ $10.6\mu\text{m}$	$\leq 0.2\%$