

Nd:YAG Laser-1064nm-Output Mirror



DESCRIPTION

Nd:YAG laser output couplers, partially transmissive laser mirrors, are used to extract the output beam from the laser resonator to produce useful output from the laser. The laser output mirror adopts high-quality fused silica, ultra-smooth polishing technology, electron beam or ion beam sputtering multi-layer dielectric thin film coating technology. The output coupling mirror has low loss and high damage threshold, and the output transmittance can be selected according to the laser parameters.

PROCESSING INDEX

Parallelism	10 ″
Perpendicularity	5 ′
Surface Finish	20-10
Flatness	$\lambda / 8 @ 632 \text{ nm}$
Clear Aperture	> 85% central area
Chamfer	0.2mm-0.5mm @ 45°
Dimensional Accuracy	$\pm 0.05\text{mm}$
Thickness/Diameter Tolerance	(0,-0.1)mm
Damage Threshold	>10 J/cm ² @ 1064nm 10ns 10 Hz



Nd:YAG Laser-1064nm-Output Mirror

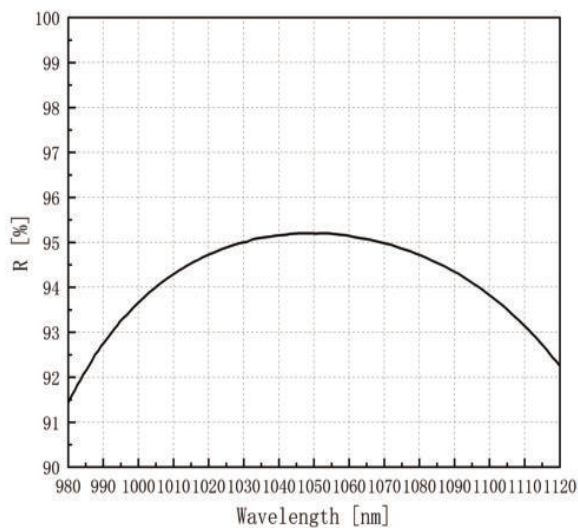
PRODUCT LIST - FUSED SILICA (MATERIAL OPTIONAL)

Model	Size	Form	Coating
CL-OC11001	$\varnothing = 25\text{ mm}$ $t = 6.35\text{ mm}$	Front Side (S2) plane Rear Side (S1) plane	Front Side (S2) $\text{PR}(0^\circ, 1030\text{-}1064\text{nm})=95(\pm 1\%)$ Rear Side (S1) $\text{AR}(0^\circ, 1030\text{-}1064\text{nm})<0.15\%$

SPECTRUM

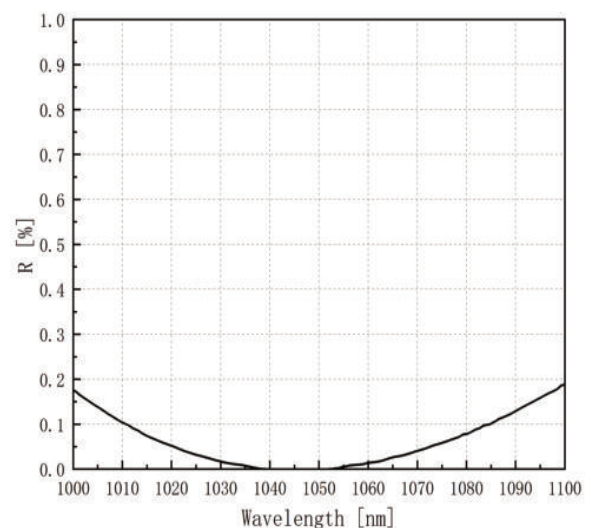
CL-OC11001

Front Side (S2)



$\text{PR}(0^\circ, 1030\text{-}1064\text{nm})=95(\pm 1\%)$

Rear Side (S1)



$\text{AR}(0^\circ, 1030\text{-}1064\text{nm})<0.15\%$

