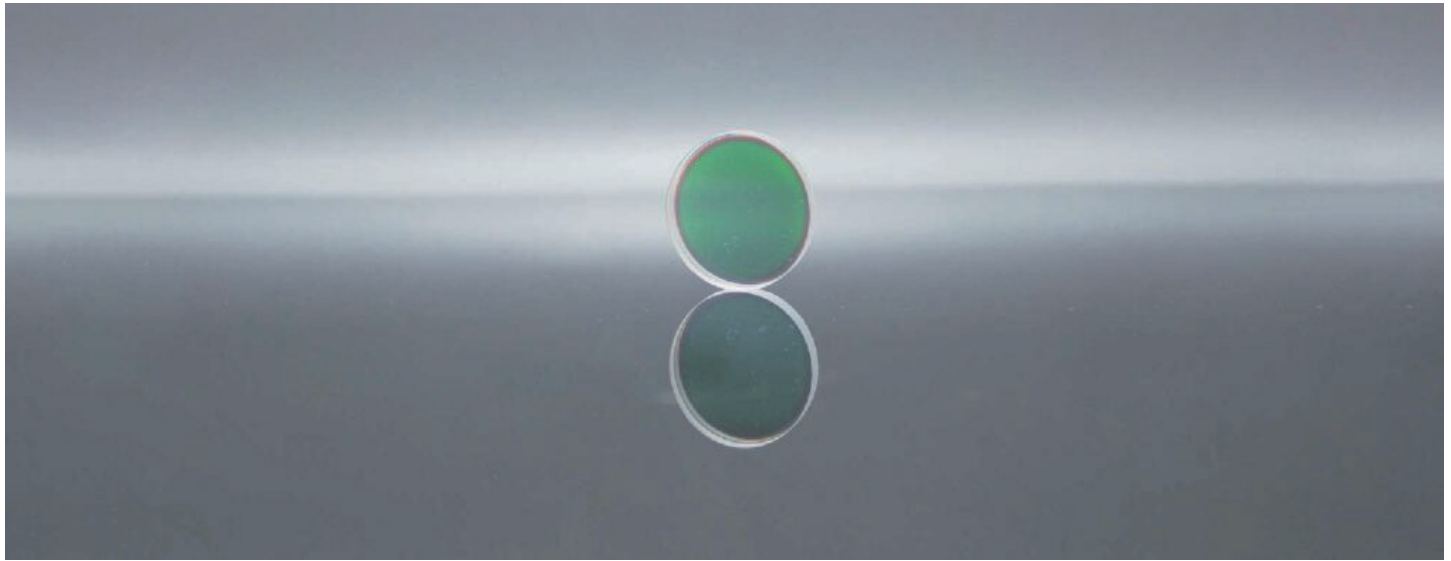


Yb:YAG Laser-1030nm-Output Mirror



DESCRIPTION

Our output coupling mirror is used as a semi-transparent dielectric mirror for the laser resonator, which can partially reflect the laser and return it to the resonator for gain amplification, and partially transmit the output stable laser. The constant reflectivity/transmittance ratio (R/T) of the laser output coupling mirror is the main property of the partial mirror in the resonator. The pump power threshold, maximum output power and light extraction efficiency of the laser are highly dependent on the R/T value of the output coupling mirror. Our output coupling mirror has a reflectivity of 70%~99.5%, and is made of sapphire/neodymium-doped yttrium aluminum garnet (YAG), which avoids absorbing light energy and thermal deformation while transmitting high-power laser beams. The reflectivity of the front surface is stable, and the laser can be well coupled and modulated.

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



Yb:YAG Laser-1030nm-Output Mirror

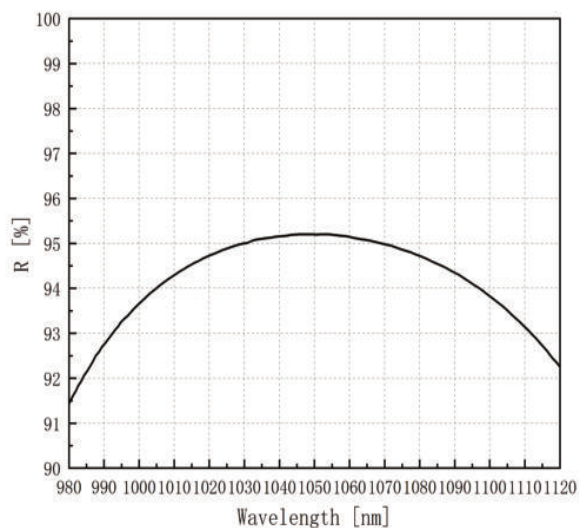
PRODUCT LIST - FUSED SILICA (MATERIAL OPTIONAL)

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

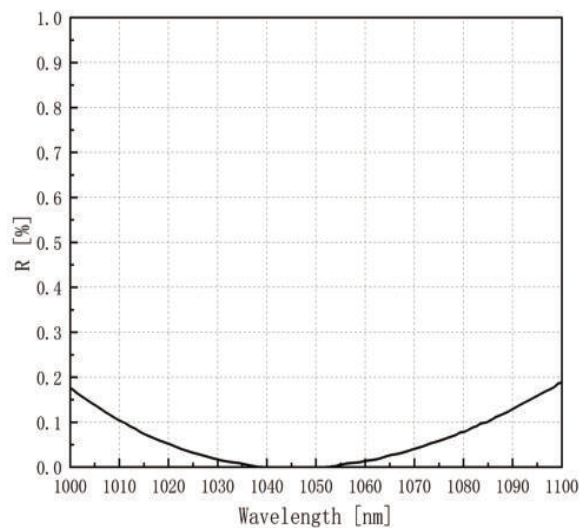
CL-OC11001

Front Side (S2)



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

Rear Side (S1)



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

