

Er: YAG Laser-2940nm-Laser Mirror



DESCRIPTION

Our reflector is an optical product with good comprehensive performance. When applied to the resonator of laser, the laser mirror must meet the requirements of low reflection loss, good transmission in a certain wavelength range, high optical quality of the surface, good anti-high light intensity, that is, high damage threshold, in order to avoid laser-induced damage. Our laser mirror substrates are made of high quality fused silicon/sapphire and are designed for high power laser sources. These mirrors have high reflectivity >99.8%, high damage threshold, and wavefront distortion $\lambda/4$ is an ideal choice for laser applications in cavity.

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



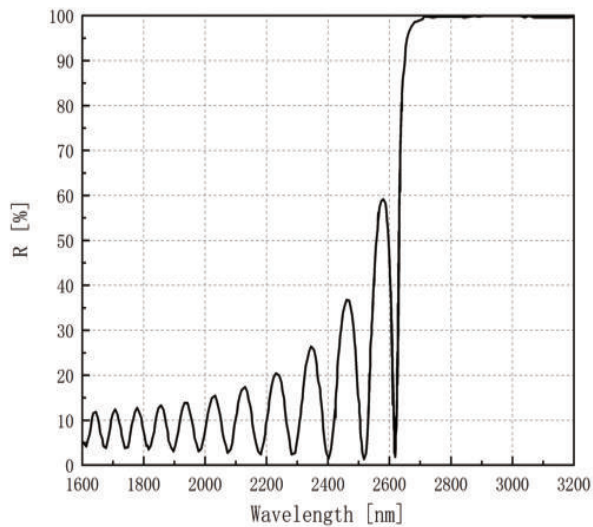
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PRODUCT LIST-INFRASIL 302 (MATERIAL OPTIONAL)

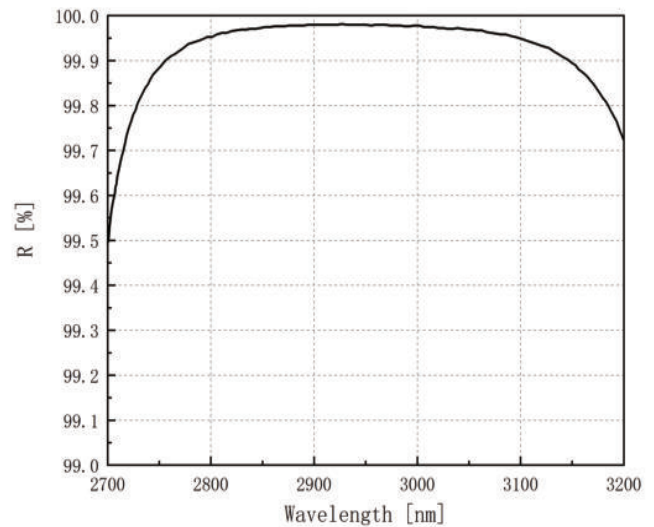
Model	Size	Form	Coating
CL-LM20011	$\varnothing = 12.7 \text{ mm } (-0.1 \text{ mm})$ $t = 6.35 \text{ mm } (\pm 0.1 \text{ mm})$	Front Side (S2) concave $r = 1,000 \text{ mm } (\pm 1 \%)$ Rear Side (S1) plane	Front Side (S2) $\text{HR}(0^\circ, 2940\text{nm}) > 99.8\%$
CL-LM20012	$\varnothing = 12.7 \text{ mm } (-0.1 \text{ mm})$ $t = 6.35 \text{ mm } (\pm 0.1 \text{ mm})$	Front Side (S2) Concave $r = 2,000 \text{ mm } (\pm 1 \%)$ Rear Side (S1) plane	Front Side (S2) $\text{HR}(0^\circ, 2940\text{nm}) > 99.8\%$

SPECTRUM

CL-LM20011, CL-LM20012



$\text{HR}(0^\circ, 2940\text{nm}) > 99.8\%$



$\text{HR}(0^\circ, 2940\text{nm}) > 99.8\%$

