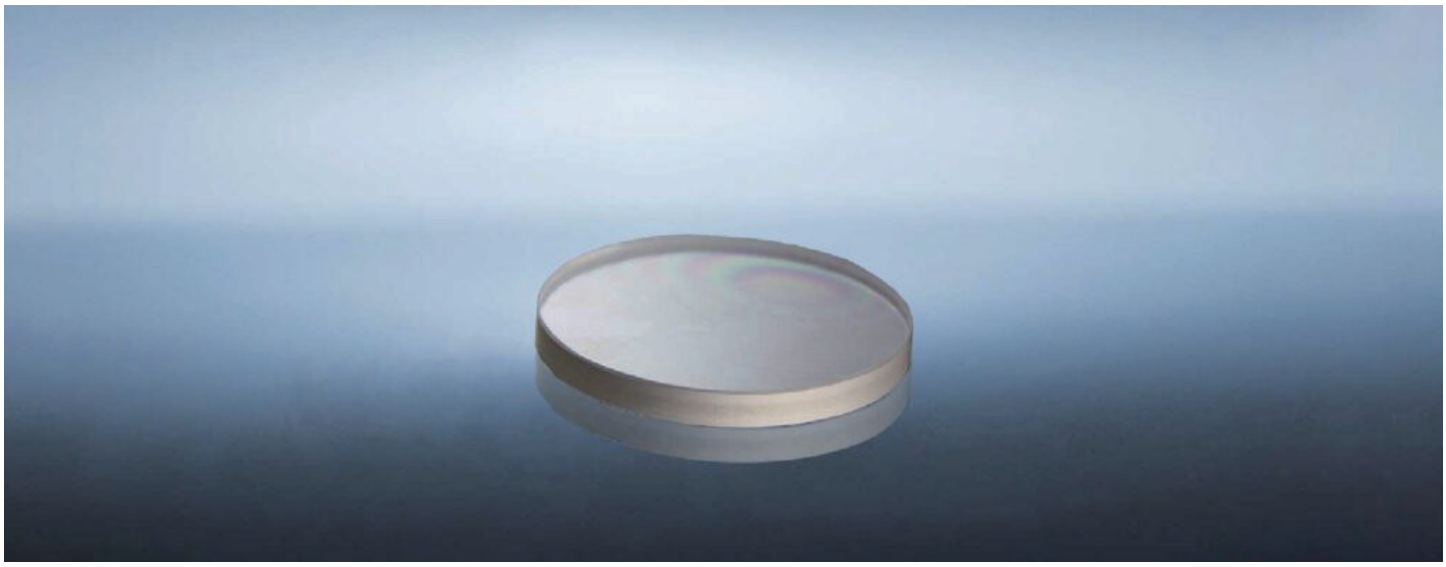
Yb:YAG Laser-1030nm-Laser Mirror



DESCRIPTION

Our reflector is an optical product with good overall performance. When applied to a laser resonator, the laser mirror must meet the requirements of low reflection loss, good transmittance in a certain wavelength range, high optical quality surface, good resistance to high light intensity, that is, high damage threshold, to avoid laser-induced damage . Our laser mirror substrates are made of high-quality fused silicon/sapphire and are designed for use with high-power laser sources. With high reflectivity >99.8%, high damage threshold, and wavefront distortion >λ/4, these mirrors are ideal for intracavity laser applications.

PROCESSING INDEX

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

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PRODUCT SPECIFICATIONS

Model	Size	Form	Coating
CL-LM11062-127	⌀ =12.7mm t =6.35mm	Front Side (S2) plane Rear Side (S1) plane	Front Side (S2) HR(0°,1030-1064nm)>99.9%
CL-LM11062-254	⌀ =25.4mm t =6.35mm	Front Side (S2) plane Rear Side (S1) plane	Front Side (S2) HR(0°,1030-1064nm)>99.9%
CL-LM11062-381	⌀ =38.1mm t =6.35mm	Front Side (S2) plane Rear Side (S1) plane	Front Side (S2) HR(0°,1030-1064nm)>99.9%
CL-LM11009-127	⌀ =12.7mm t = 6.35 mm	Front Side (S2) concvex r =200 mm (±0.5 %) Rear Side (S1) plane	Front Side (S2) HR(0°,1030-1064nm)>99.9%
CL-LM11009-254	⌀ =25.4mm t =6.35mm	Front Side (S2) concvex r =200 mm (±0.5 %) Rear Side (S1) plane	Front Side (S2) HR(0°,1030-1064nm)>99.9%
CL-LM11009-381	⌀ =38.1mm t =6.35mm	Front Side (S2) concvex r =200 mm (±0.5 %) Rear Side (S1) plane	Front Side (S2) HR(0°,1030-1064nm)>99.9%
CL-LM11008-127	⌀ =12.7mm t = 6.36 mm	Front Side (S2) concave r =400 mm (±0.5 %) Rear Side (S1) plane	Front Side (S2) HR(0°,1030-1064nm)>99.9%
CL-LM11008-254	⌀ =25.4mm t =6.35mm	Front Side (S2) concave r =400 mm (±0.5 %) Rear Side (S1) plane	Front Side (S2) HR(0°,1030-1064nm)>99.9%
CL-LM11008-381	⌀ =38.1mm t =6.35mm	Front Side (S2) concave r =400 mm (±0.5 %) Rear Side (S1) plane	Front Side (S2) HR(0°,1030-1064nm)>99.9%

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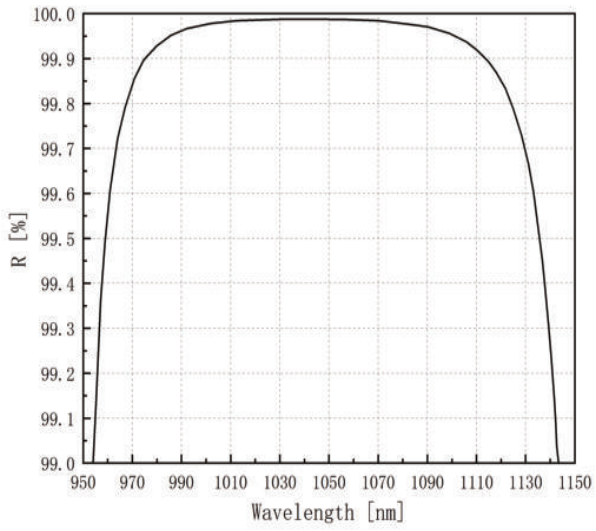
SPECTRUM

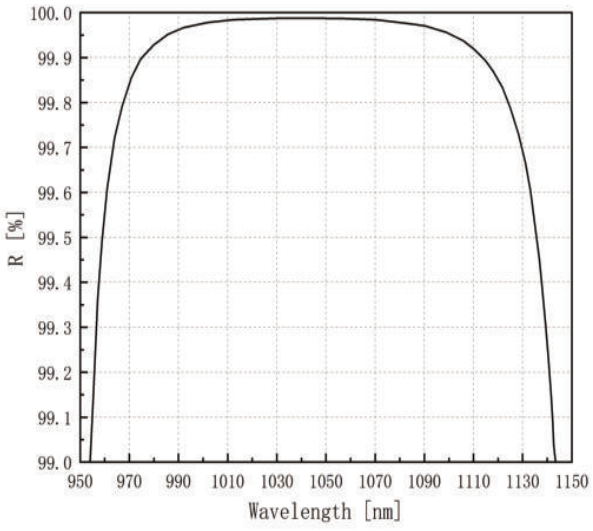
Front Side (S2)

CL-LM11062



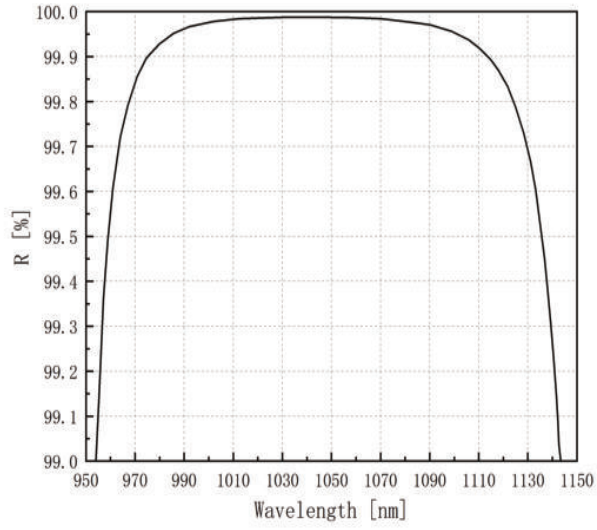
HR(0°,1030-1064nm)>99.9%

CL-LM11008



HR(0°,1030-1064nm)>99.9%

CL-LM11009



HR(0°,1030-1064nm)>99.9%