

Nd:YAG Laser-1064nm-Laser Window



DESCRIPTION

The main functions of the fiber laser protective lens are: to protect the focusing lens, to prevent splashes from sputtering on the lens and causing damage to the lens, and to ensure the processing accuracy requirements by regularly replacing the protective lens. Coating the lens with 1064 antireflection coating with high damage threshold ($>10\text{Jcm}^2$) can effectively increase the transmittance of the lens, reduce energy loss and improve the quality of processed products. Widely used in: laser cutting machine, laser welding machine and other laser equipment.

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	$>10 \text{ J/cm}^2 @ 1064\text{nm} \text{ 10ns } 10 \text{ Hz}$



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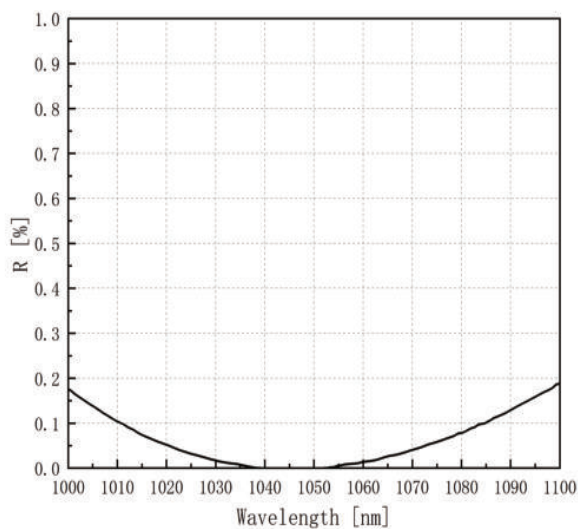
PRODUCT LIST - FUSED SILICA (MATERIAL OPTIONAL)

Model	Size	Form	Coating
CL-LW11003	$\varnothing = 25 \text{ mm}$ $t = 1 \text{ mm}$	Front Side (S2) plane Rear Side (S1) plane	Front Side (S2) AR(0°,1030-1064nm)<0.15% Rear Side (S1) AR(0°,1030-1064nm)<0.15%
CL-LW11004	$\varnothing = 25 \text{ mm}$ $t = 3.05 \text{ mm}$	Front Side (S2) plane Rear Side (S1) plane	Front Side (S2) AR(0°,515-532nm)<0.5% AR(0°,1030-1064nm) Rear Side (S1) AR(0°,515-532nm)<0.5% AR(0°,1030-1064nm)

SPECTRUM

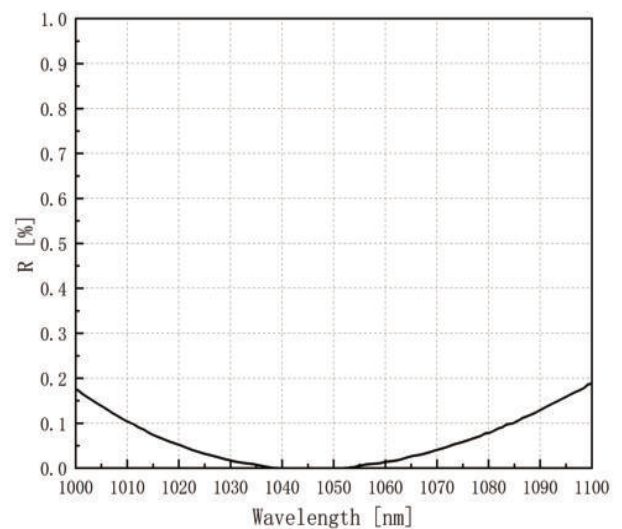
CL-LW11003

Front Side (S2)



AR(0°,1030-1064nm)<0.15%

Rear Side (S1)



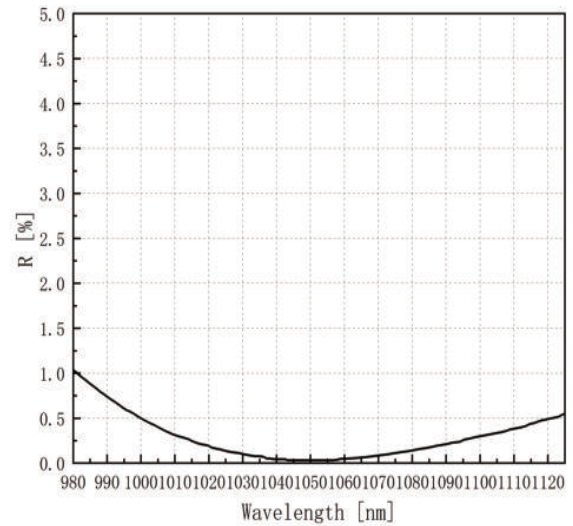
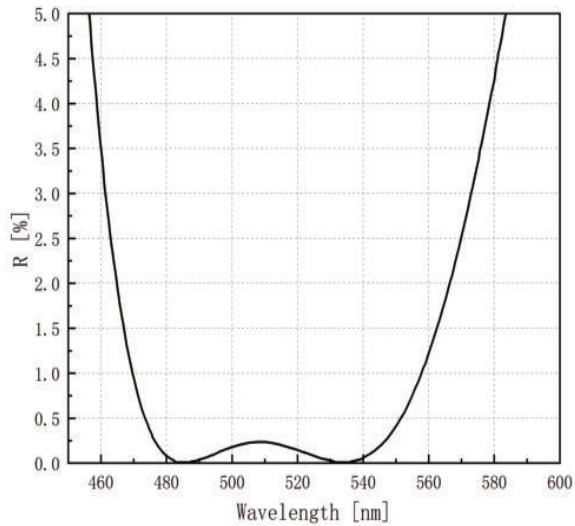
AR(0°,1030-1064NM)<0.15%



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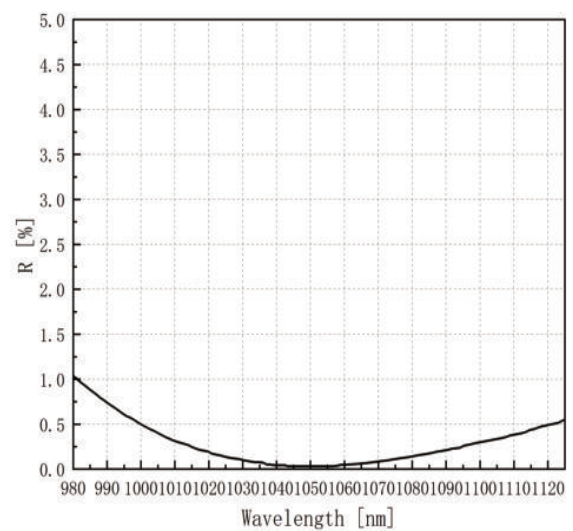
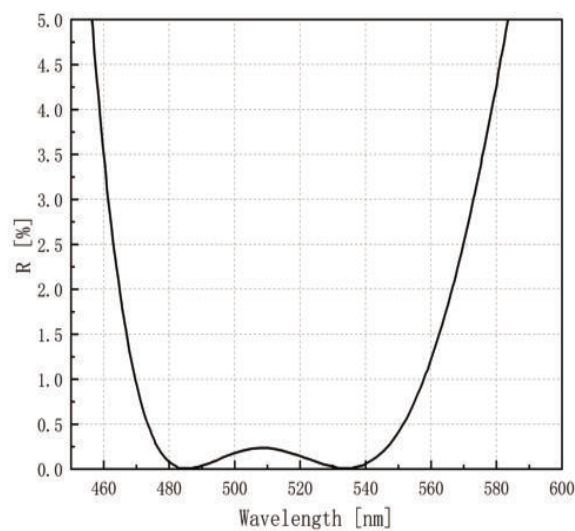
CL-LW11004

Front Side (S2)



AR(0°,515-532nm)<0.5%, AR(0°,1030-1064nm)

Rear Side (S1)



AR(0°,515-532nm)<0.5%, AR(0°,1030-1064nm)

