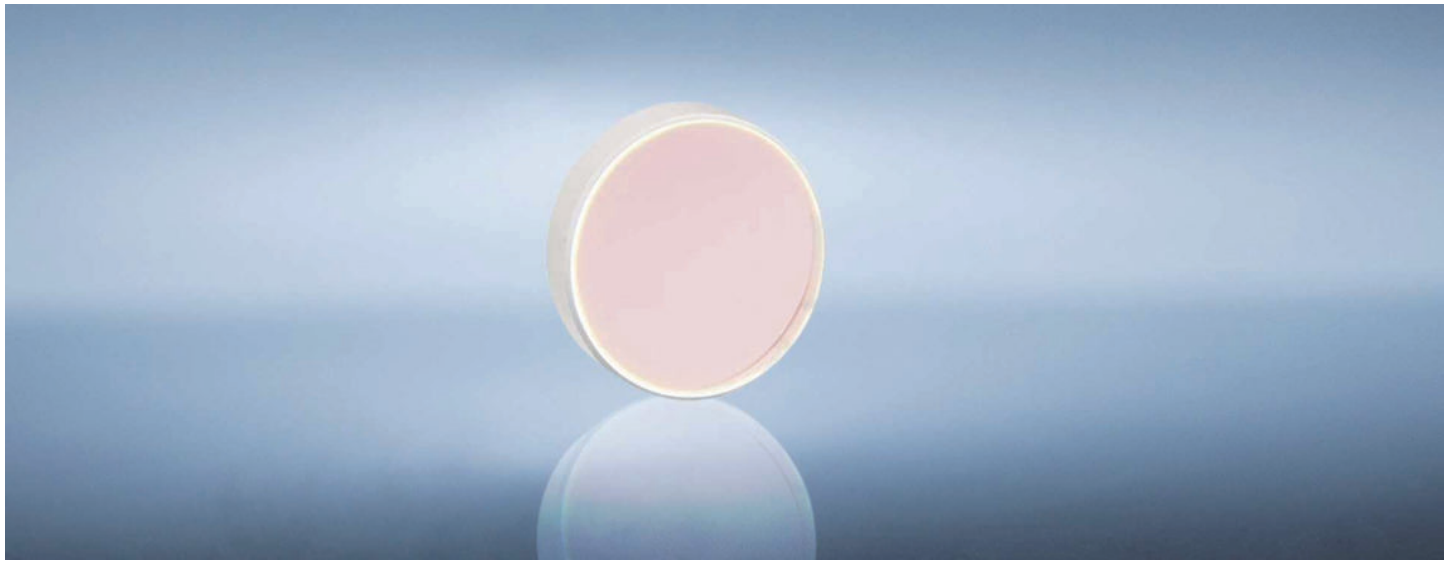


Nd:YAG Laser-1064nm-Pump Mirror



DESCRIPTION

The laser pump mirror adopts high-quality fused silica substrate, with all-dielectric high-reflection coating and anti-reflection coating, which provides extremely high reflection efficiency and other properties within the corresponding laser wavelength range. The laser pump mirror can be used in the design of the laser cavity, and the number of reflections can be enhanced to improve the output power. Mainly use high-reflection coating (HR) for coating and anti-reflection coating (AR). The reflectivity of HR coating to natural light or S-polarized light and P-polarized light in a specific light band range can be as high as 99% or even close to The reflectivity of AR to them can be as low as 0.2% or less, and the high-precision processed quartz optical substrate effectively reduces light scattering, so that this type of laser pump mirror can be widely used in various high-precision laser applications occasion.

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



Nd:YAG Laser-1064nm-Pump Mirror

PRODUCT LIST - FUSED SILICA (MATERIAL OPTIONAL)

CL-PM11023	$\varnothing = 12.7\text{mm}$ $t = 6.35\text{mm}$	Front Side (S2) plane Rear Side (S1) plane	Front Side (S2) HR(0°,1064nm)>99.9% R(0°,808nm)<3% Rear Side (S1) AR(0°,808nm)<0.2%
CL-PM11023	$\varnothing = 25\text{mm}$ $t = 6.35\text{mm}$	Front Side (S2) plane Rear Side (S1) plane	Front Side (S2) HR(0°,1064nm)>99.9% R(0°,808nm)<3% Rear Side (S1) AR(0°,808nm)<0.2%
CL-PM11023	$\varnothing = 38.1\text{mm}$ $t = 6.35\text{mm}$	Front Side (S2) plane Rear Side (S1) plane	Front Side (S2) HR(0°,1064nm)>99.9% R(0°,808nm)<3% Rear Side (S1) AR(0°,808nm)<0.2%
CL-PM11015	$\varnothing = 12.7\text{mm}$ $t = 6.35\text{mm}$	Front Side (S2) plane Rear Side (S1) plane	Front Side (S2) HR(0°,532nm)>99.9% R(0°,1064nm)<0.5% Rear Side (S1) AR(0°,1064nm)<0.25%
CL-PM11015	$\varnothing = 25.4\text{mm}$ $t = 6.35\text{mm}$	Front Side (S2) plane Rear Side (S1) plane	Front Side (S2) HR(0°,532nm)>99.9% R(0°,1064nm)<0.5% Rear Side (S1) AR(0°,1064nm)<0.25%
CL-PM11015	$\varnothing = 38.1\text{mm}$ $t = 6.35\text{mm}$	Front Side (S2) plane Rear Side (S1) plane	Front Side (S2) HR(0°,532nm)>99.9% R(0°,1064nm)<0.5% Rear Side (S1) AR(0°,1064nm)<0.25%
CL-PM11006	$\varnothing = 12.7\text{ mm}$ $t = 6.35\text{ mm}$	Front Side (S2) concave $r = 50\text{ mm } (\pm 0.5\%)$ Rear Side (S1) plane	Front Side (S2) HR(0°,532nm)>99.9% HR(0°,1064nm)>99.9% R(0°,808nm)<5% Rear Side (S1) AR(0°,808nm)<0.2%
CL-PM11007	$\varnothing = 12.7\text{ mm}$ $t = 6.35\text{ mm}$	Front Side (S2) concave $r = 100\text{ mm } (\pm 0.5\%)$ Rear Side (S1) plane	Front Side (S2) HR(0°,532nm)>99.9% HR(0°,1064nm)>99.9% R(0°,808nm)<5% Rear Side (S1) AR(0°,808nm)<0.2%



Nd:YAG Laser-1064nm-Pump Mirror

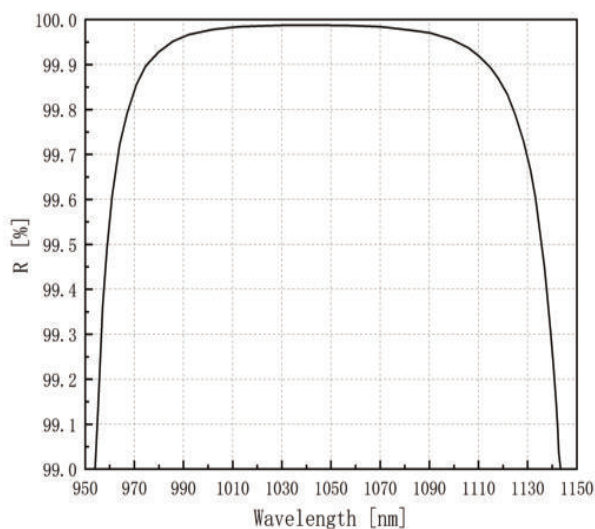
PRODUCT LIST - FUSED SILICA (MATERIAL OPTIONAL)

CL-PM11008	$\varnothing = 12.7 \text{ mm}$ $t = 6.35 \text{ mm}$	Front Side (S2) concave $r = 200 \text{ mm } (\pm 0.5 \%)$ Rear Side (S1) plane	Front Side (S2) $HR(0^\circ, 532\text{nm}) > 99.9\%$ $HR(0^\circ, 1064\text{nm}) > 99.9\%$ $R(0^\circ, 808\text{nm}) < 5\%$ Rear Side (S1) $AR(0^\circ, 808\text{nm}) < 0.2\%$
CL-PM11009	$\varnothing = 12.7 \text{ mm}$ $t = 6.35 \text{ mm}$	Front Side (S2) concave $r = 300 \text{ mm } (\pm 0.5 \%)$ Rear Side (S1) plane	Front Side (S2) $HR(0^\circ, 532\text{nm}) > 99.9\%$ $HR(0^\circ, 1064\text{nm}) > 99.9\%$ $R(0^\circ, 808\text{nm}) < 5\%$ Rear Side (S1) $AR(0^\circ, 808\text{nm}) < 0.2\%$
CL-PM11011	$\varnothing = 12.7 \text{ mm}$ $t = 6.35 \text{ mm}$	Front Side (S2) concave $r = 500 \text{ mm } (\pm 0.5 \%)$ Rear Side (S1) plane	Front Side (S2) $HR(0^\circ, 532\text{nm}) > 99.9\%$ $HR(0^\circ, 1064\text{nm}) > 99.9\%$ $R(0^\circ, 808\text{nm}) < 5\%$ Rear Side (S1) $AR(0^\circ, 808\text{nm}) < 0.2\%$

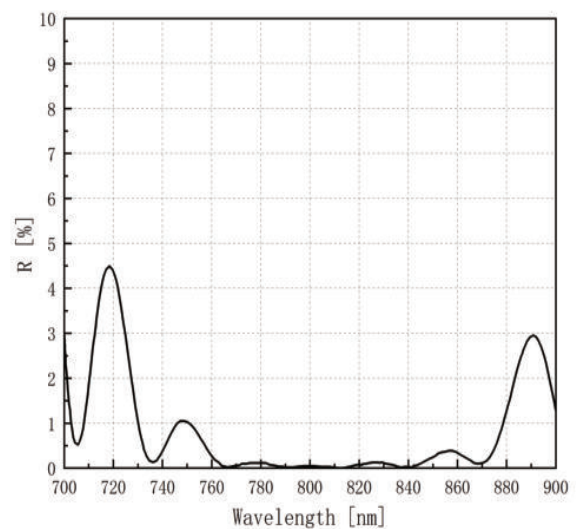
SPECTRUM

CL-PM11023

Front Side (S2)



$HR(0^\circ, 1064\text{nm}) > 99.9\%$



$R(0^\circ, 808\text{nm}) < 3\%$

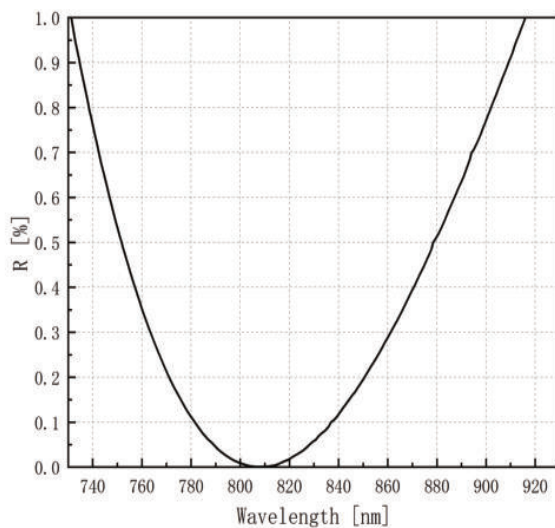


Nd:YAG Laser-1064nm-Pump Mirror

SPECTRUM

CL-PM11023

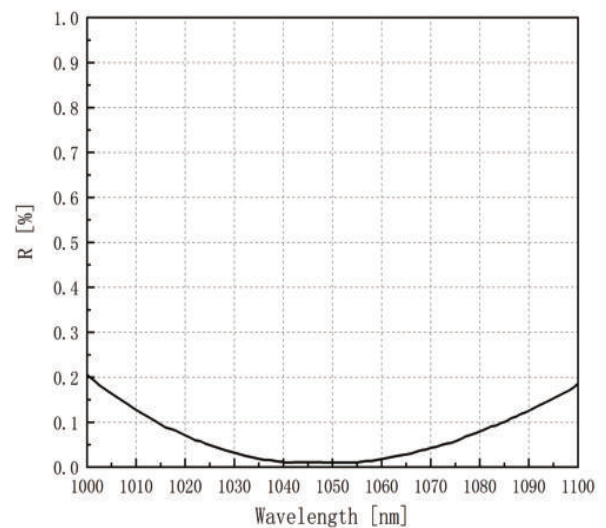
Rear Side (S1)



AR(0°,808nm)<0.2%

CL-PM11015

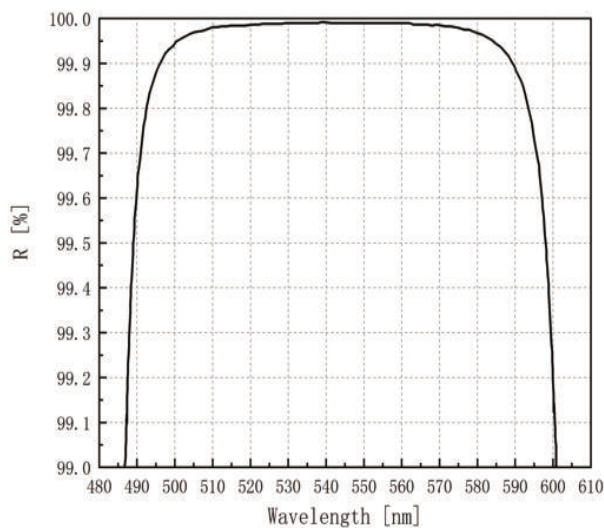
Rear Side (S1)



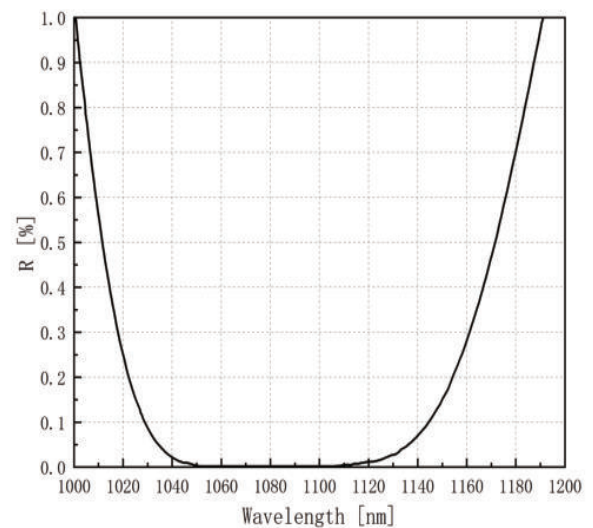
AR(0°,1064nm)<0.25%

CL-PM11015

Front Side (S2)



HR(0°,532nm)>99.9%



R(0°,1064nm)<0.5%

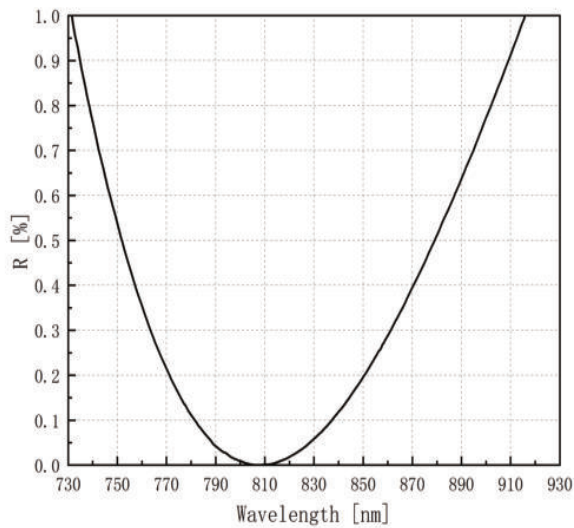


Nd:YAG Laser-1064nm-Pump Mirror

SPECTRUM

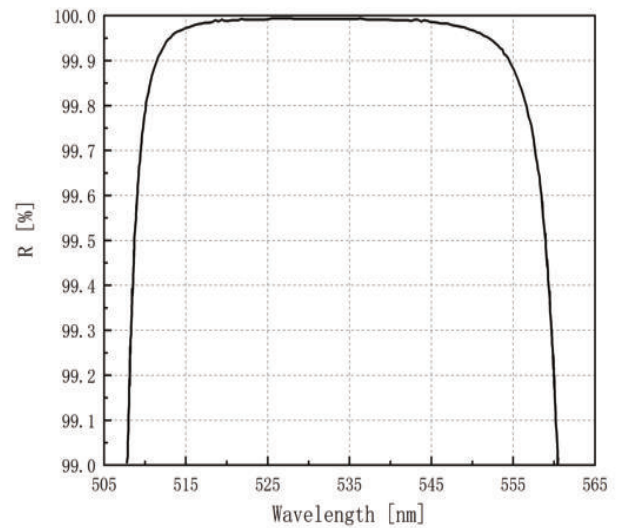
CL-PM11006,CL-PM11007,CL-PM11008,CL-PM11009,CL-PM11011

Rear Side (S1)



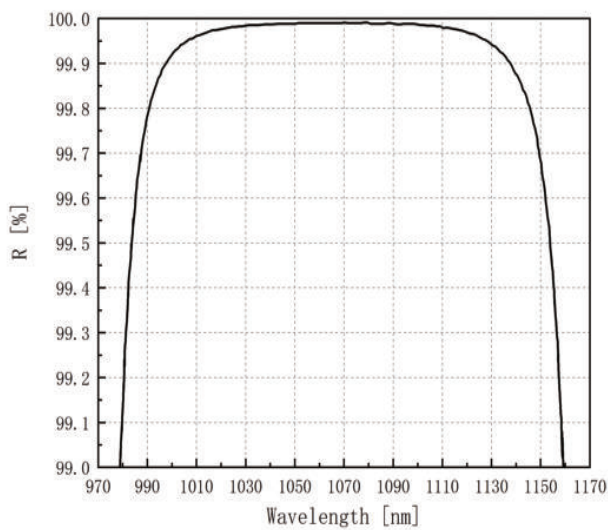
AR(0°,808nm)<0.2%

Front Side (S2)

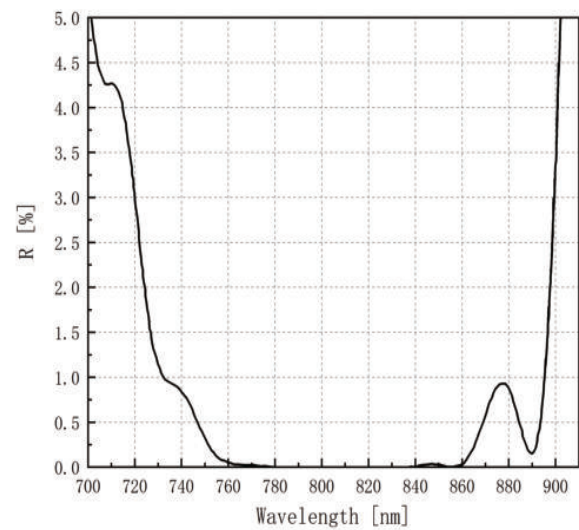


HR(0°,532nm)>99.9%

Front Side (S2)



HR(0°,1064nm)>99.9%



R(0°,808nm)<5%

