

Nd:YAG激光器-1064nm-泵浦镜



描述

激光泵镜采用高品质熔融石英基片，配合全介质高反镀膜和抗反射膜，在相应的激光波长范围内提供了极高的反射效率等性能。激光泵镜可用于激光腔内设计，并加强反射次数，提高输出功率。主要采用了高反射膜层（HR）进行镀膜和抗反射膜（AR），HR膜层在特定的光波段范围对自然光或S-偏振光和P-偏振光的反射率可高达99%甚至接近于100%，而AR对它们的反射率可低至0.2%以下，高精度加工的石英光学基片有效地减低了光散射，使这类激光泵浦镜可广泛应用于各种高精度激光应用场合。

参数

加工指标

平行性	10"
垂直性	5′
表面质量	10-20
表面平整度	$\lambda / 8 @ 632 \text{ nm}$
通光孔径	> 85% 中心区域
倒角	0.2mm-0.5mm @ 45°
尺寸精度	$\pm 0.05\text{mm}$
厚度/直径公差	(0,-0.1)mm
损伤阈值	$>10 \text{ J/cm}^2 @ 1064 \text{ nm } 10 \text{ ns } 10 \text{ Hz}$



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产品列表-熔石英（材料可选）

型号	尺寸	外形	膜系
CL-PM11023-127	$\phi = 12.7\text{mm}$ $t = 6.35\text{mm}$	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-PM11023-250	$\phi = 25\text{mm}$ $t = 6.35\text{mm}$	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-PM11023-381	$\phi = 38.1\text{mm}$ $t = 6.35\text{mm}$	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-PM11015-127	$\phi = 12.7\text{mm}$ $t = 6.35\text{mm}$	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-PM11015-254	$\phi = 25.4\text{mm}$ $t = 6.35\text{mm}$	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-PM11015-381	$\phi = 38.1\text{mm}$ $t = 6.35\text{mm}$	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	$\phi = 12.7\text{ mm}$ $t = 6.35\text{ mm}$	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	$\phi = 12.7\text{ mm}$ $t = 6.35\text{ mm}$	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%



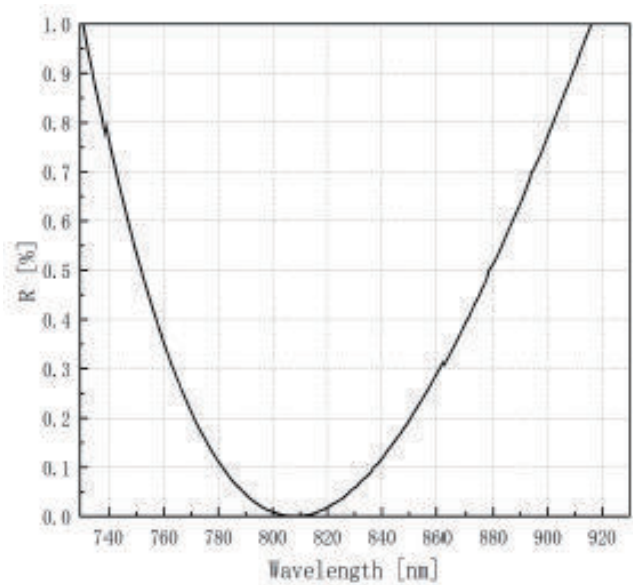
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型号	尺寸	外形	膜系
CL-PM11008	$\phi = 12.7\text{ mm}$ $t = 6.35\text{ mm}$	Front Side (S2) concave $r = 200\text{ mm } (\pm 0.5\%)$ Rear Side (S1) plane	Front Side (S2) $\text{HR}(0^\circ, 532\text{nm}) > 99.9\%$ $\text{HR}(0^\circ, 1064\text{nm}) > 99.9\%$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

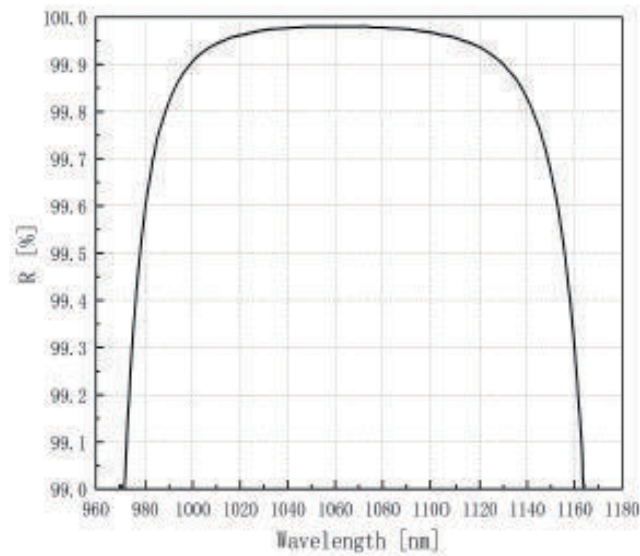
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谱图

CL-PM11023



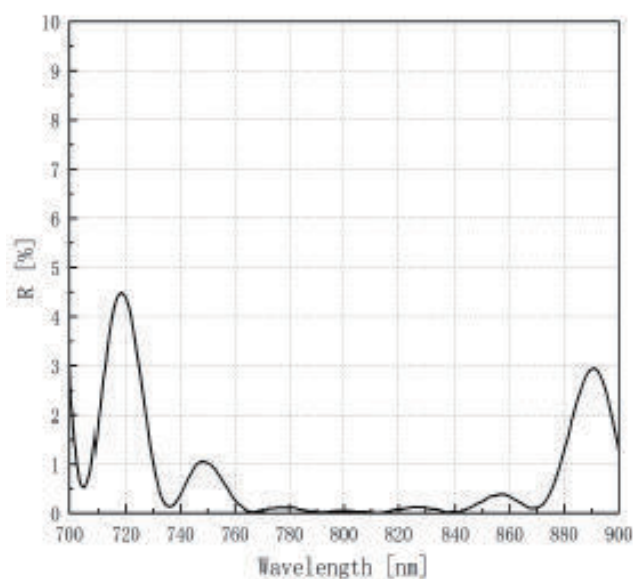
S1: AR(0°,808nm)<0.2%



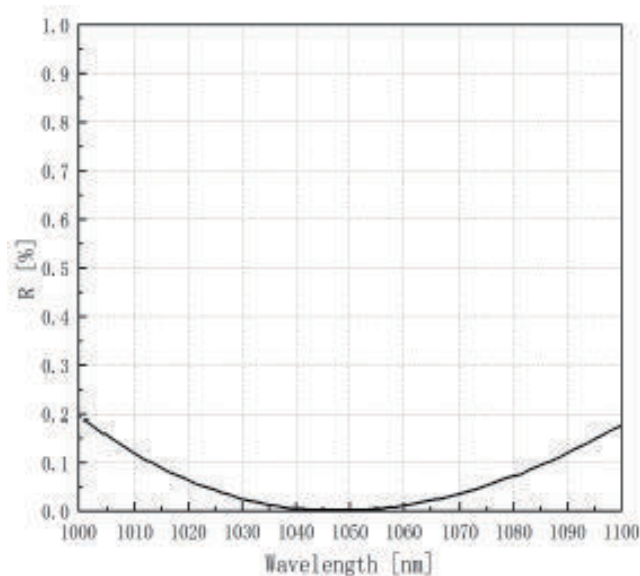
S2: HR(0°,1064nm)>99.9% R(0°,808nm)<3%



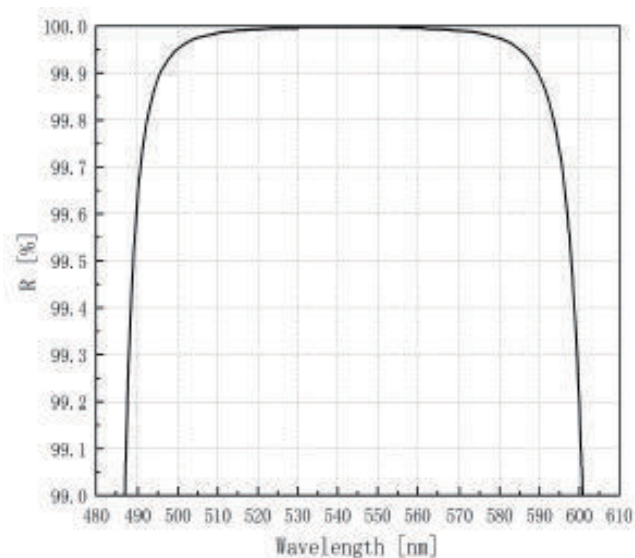
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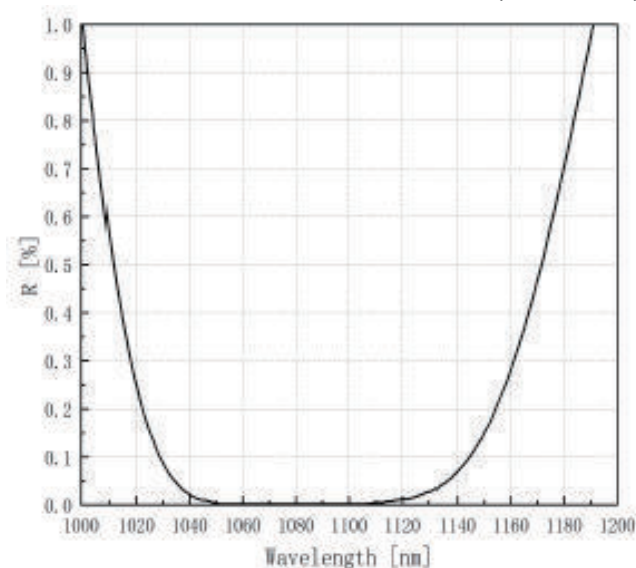
CL-PM11015



S1: AR(0°,1064nm)<0.25%

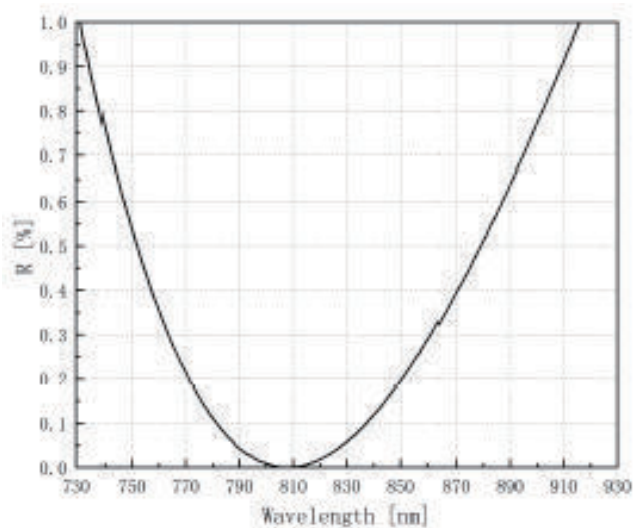


S2: HR(0°,532nm)>99.9% R(0°,1064nm)<0.5%

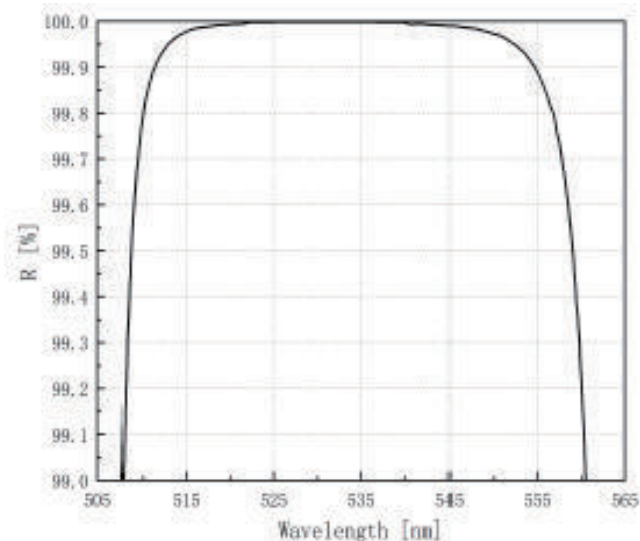


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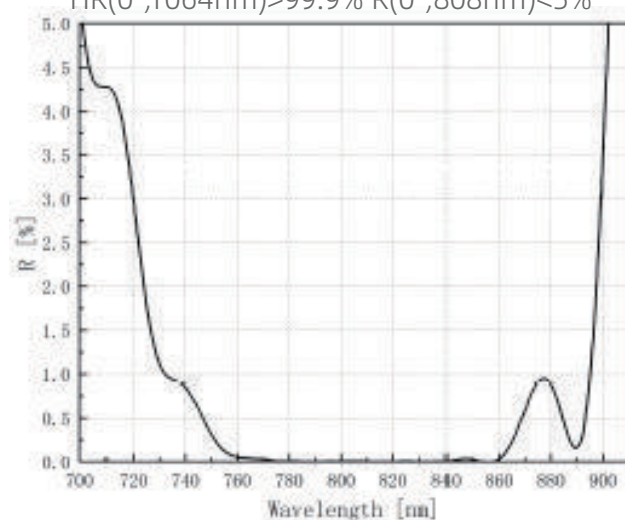
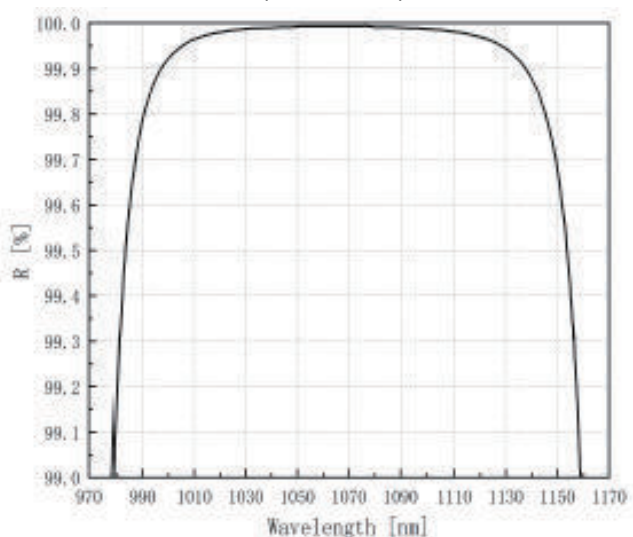
CL-PM11006、CL-PM11007、CL-PM11008、CL-PM11009



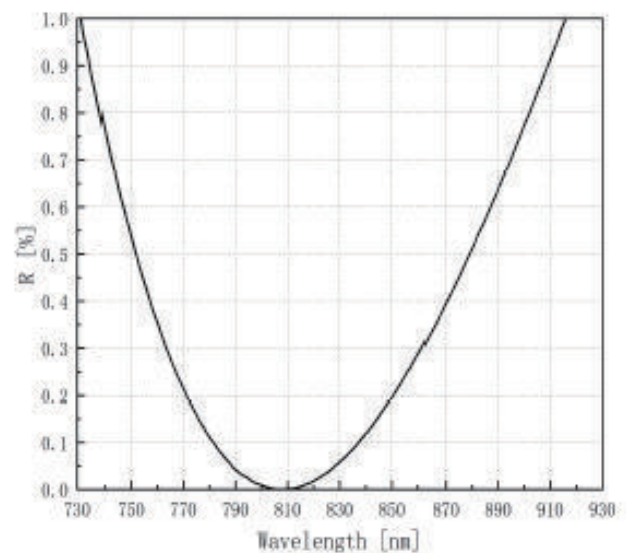
S1: AR(0°,808nm)<0.2%



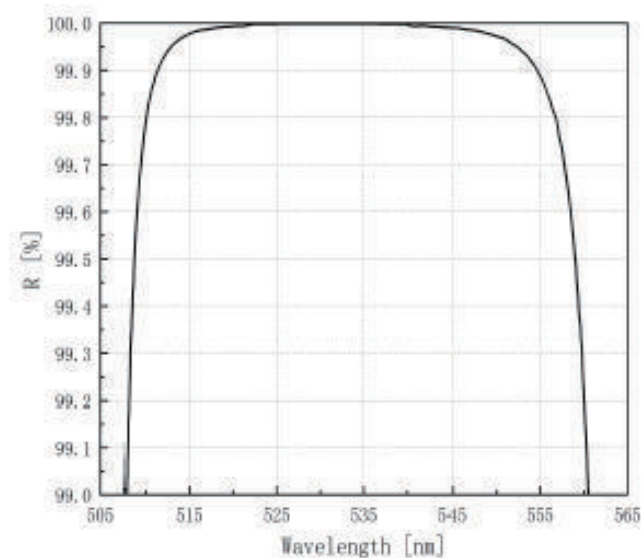
S2: HR(0°,532nm)>99.9%
HR(0°,1064nm)>99.9% R(0°,808nm)<5%



CL-PM11011



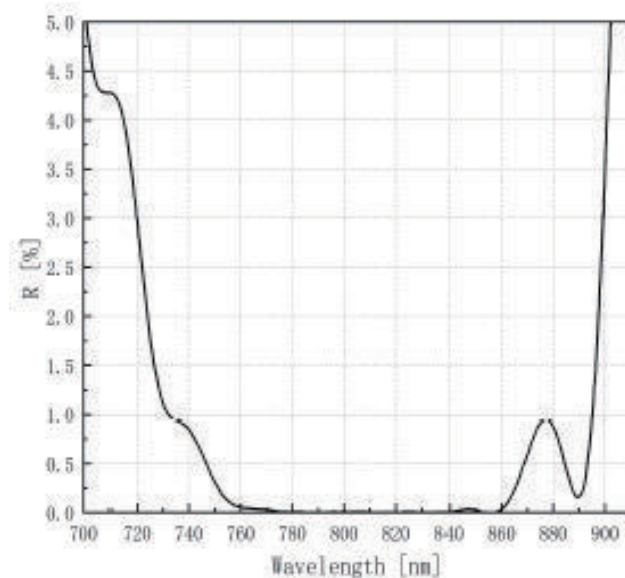
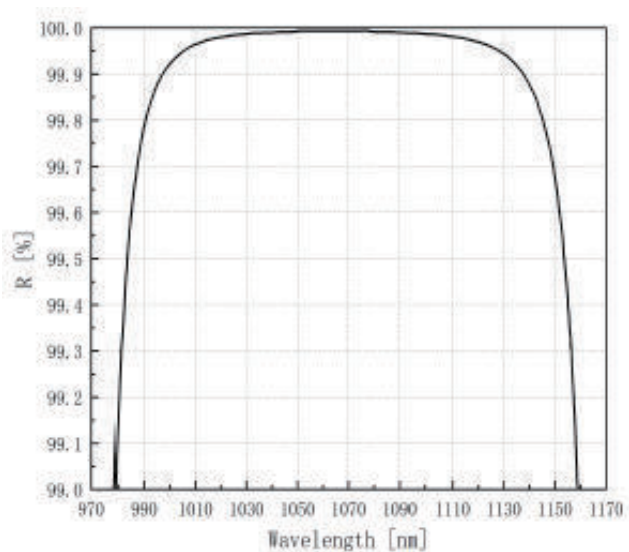
S1: AR(0°,808nm)<0.2%



S2: HR(0°,532nm)>99.9%
HR(0°,1064nm)>99.9% R(0°,808nm)<5%



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