

Laser Mirrors

LASERSTEC use our super polished substrates and IBS coating to supply a series mirrors. Our high-energy Nd:YAG laser mirrors are manufactured using high purity fused silica substrates and dielectric coatings by IBS technology. These mirrors have been specifically designed to withstand high-energy pulses and have a high damage threshold.

Application:

Medical Laser system

Industrial Q-Switch Laser system



Specification of Mirrors

Material	UVFS, Corning7980, BK7,YAG etc
Surface Flatness	$\leq \lambda/10$ at 632.8 nm
Clear Aperture	\geq central 85% of diameter
Surface Quality	10-5 scratch-dig per MIL-PRF-13830B
Diameter Tolerance	+0/-0.1 mm
Thickness Tolerance	± 0.1 mm
Wedge	≤ 1 arc min
Chamfers	0.2mmX45°
Durability	MIL-M-48497
Damage Threshold	1064 nm: 20 J/cm ² with 10 nsec pulses, typical 532 nm: 5 J/cm ² with 10 nsec pulses, typical

Standard Products

Part No.	Substrate	Dimension	Coating
LM-127635-B-1064	BK7	Dia12.7X6.35mm	R>99.8%@1064nm@0°
LM-127635-B-1064	BK7	Dia12.7X6.35mm	R>99.8%@1064nm@45°
LM-254635-B-1064	BK7	Dia25.4X6.35mm	R>99.8%@1064nm@0°
LM-254635-B-1064	BK7	Dia25.4X6.35mm	R>99.8%@1064nm@45°
LM-127635-C-532	Corning7980/UVFS	Dia12.7X6.35mm	R>99.8%@1064nm&R>99.5@532nm@0°
LM-127635-C-532	Corning7980/UVFS	Dia12.7X6.35mm	R>99.8%@1064nm&R>99.5@532nm @45°
LM-254635-C-532	Corning7980/UVFS	Dia25.4X6.35mm	R>99.8%@1064nm&R>99.5@532nm @0°
LM-254635-C-532	Corning7980/UVFS	Dia25.4X6.35mm	R>99.8%@1064nm&R>99.5@532nm @45°
LM-127635-C-1064	Corning7980/UVFS	Dia12.7X6.35mm	R>99.8%@1064nm&T>99.5@532nm@0°
LM-127635-C-1064	Corning7980/UVFS	Dia12.7X6.35mm	R>99.8%@1064nm&T>99.5@532nm @45°
LM-254635-C-1064	Corning7980/UVFS	Dia25.4X6.35mm	R>99.8%@1064nm&T>99.5@532nm @0°
LM-254635-C-1064	Corning7980/UVFS	Dia25.4X6.35mm	R>99.8%@1064nm&T>99.5@532nm @45°
LM-254635-C-355	Corning7980/UVFS	Dia25.4X6.35mm	HR1064&532&355nm@0°
LM-254635-C-355	Corning7980/UVFS	Dia25.4X6.35mm	HR1064&532&355nm@0°
LM-254635-C-355	Corning7980/UVFS	Dia25.4X6.35mm	HR355nm&HT1064&532@45°
LM-254635-C-355	Corning7980/UVFS	Dia25.4X6.35mm	HR1064&532& HT355nm@45°
LM-127635-J-2100	JGS3	Dia12.7X6.35mm	R>99.8%@2100nm@0°
LM-254635-J-2100	JGS3	Dia25.4X6.35mm	R>99.8%@2100nm@0°
LM-127635-Y-2940	YAG	Dia12.7X6.35mm	R>99.8%@2940nm@0°
LM-254635-Y-2940	YAG	Dia25.4X6.35mm	R>99.8%@2940nm@0°