

Ti:Sapphire Laser Line Mirrors

HR Laser Line Mirrors for Titan-Sapphire Laser

Materion Balzers Optics provides high reflective laser line mirrors for Ti:Sapphire Lasers. These advanced beam-steering components are especially designed for short-pulse lasers applications like ablation, engravings, micro-drilling or micro-cutting. Materion Balzers Optics mirrors stand out due to highest reflectivity, minimized optical losses and best surface quality, which allow for an excellent laser damage threshold. Therefore these laser line mirrors demonstrate superior operating lifetimes and hence minimize operating cost and downtime of any Ti:Sapphire Laser-System.



Benefits

- Useable for laser line: 700 ... 900nm
- Standard reflectivity >99.7% for s- and p-pol
- Optimized reflectivity upon request
- High power laser application from ns down to fs range
- Angle of incidence: 0° and 45°
- Low loss and scattering because of $RMS < 2\text{\AA}$
- Excellent long term stability

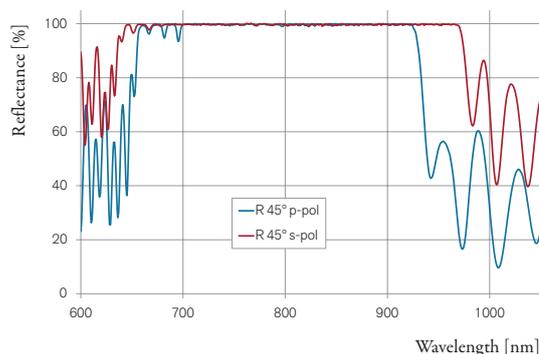
Applications

- Beam line units
- Laser material processing systems
- Laser marking

Order information

wavelength	700 – 900nm	
size	Ø12.7 × 6.35mm	Ø25.4 × 6.35mm
AOI 0°	part.: J206801	part.: J206802
AOI 45°	part.: J206803	part.: J206804

Measured spectral curve 45° Mirror Ti:Sapphire HR>99.7%@700-900nm



Technical Data

Wavelength	700...900nm (optimizes for 800nm)
Reflectance	>99.7% (ave) for any polarization
Angle of Incidence	0° or 45° (customizes upon request)
Optimized reflectivity	>99.9%
Flatness	L/10
Surface Quality (Scratch-Dig)	10-5
Dimensions	12.7(0/-0.1)mm × 6.35(±0.1)mm; 25.4(0/-0.1)mm × 6.35(±0.1)mm (others on request)
Substrate	Fused Silica
Parallelism	<5 arcmin