

Datasheet - Metallic Mirror 110885 [~]

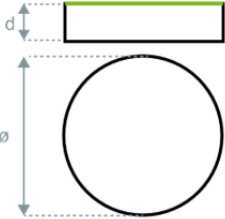
Silver Mirror:
Fused silica | plane | Ø=20.0(-0.1)mm | t=6.35(±0.10)mm | //<5min
S1: Commercial polish | chamfer 0.3
uncoated
S2(^): Øe17 | 3/0.2(0.2) [L/10] | 5/4x0.025; L1x0.004 | chamfer 0.3
Ag + Multilayer HRs(45°,710-1060nm)>99% + HRp(45°,710-1060nm)>98%
|GDD-Rs,p(45°,710-1060nm)|<20fs²

Product

Article	110885
Type	Metallic Mirror
Laser category	fs-Laser Optics
	Metallic Mirrors
Laser type	Ti:Sa Laser
Coating material (front side)	115054
Price per unit (net.)	\$137.82 discount ▼
Stock	4

General Optical Parameters

Material	Corning 7980 2F or equal
Shape	Round
Diameter (Ø)	20 mm (-0.1mm)
Thickness (t)	6.35 mm (±0.1mm)
Parallelism	5'



Optical Parameters Front Side (S2)

Shape	plane
Chamfer	0.3 mm (±0.1mm)
Test area Øe	17
Surface form tolerance	3/0.2(0.2) [L/10 @546.1nm]
Cleanliness	5/4×0.025; L1×0.004

Optical Parameters Rear Side (S1)

Shape	plane
Chamfer	0.3 mm (±0.1mm)
Surface form tolerance	3/0.2(0.2) [L/10 @546.1nm]

Coating specifications front side (S2) (115054)

[~]

Uncoated

1 st operating range	HRs(45°,710-1060nm)>99%, GDD <20fs²
Type	High Reflectance
Polarisation	s-Pol.
Angle of incidence	45°
Wavelength range	710 - 1060 nm
HR	> 99 %
GDD optimized	0 fs² (±20 fs²)
2 nd operating range	HRp(45°,710-1060nm)>98%
Type	High Reflectance
Polarisation	p-Pol.
Angle of incidence	45°
Wavelength range	710 - 1060 nm
HR	> 98 %

Coating 115054



$HR_s(45^\circ, 710-1060\text{ nm}) > 99\% + HR_p(45^\circ, 710-1060\text{ nm}) > 98\%, |GDD-R_{s,p}(710-1060\text{ nm})| < 20\text{fs}^2$
fig. 1 reflection at AOI=45°

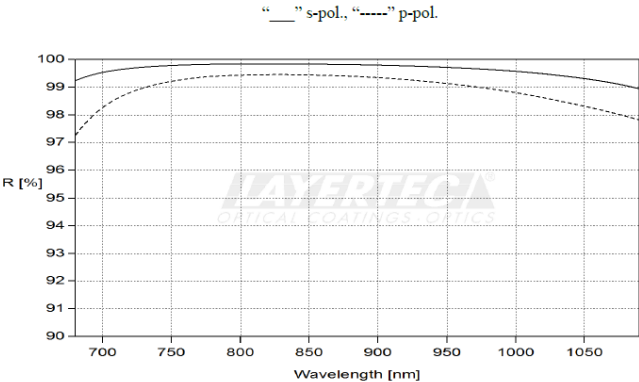


fig. 2 GDD of the reflected beam, AOI=45° (peaks at the right hand side are artefacts of calculation)

