Cavity Ring-Down Plano-Concave Mirror

1520-1670nm Reflectivity>99.99%

Product Description

Operating wavelength: 1520–1670 nm Reflectivity: >99.99% @ 1520–1670 nm Dimensions: Ø25 mm; Thickness 6.35 mm Incident angle: 0° Radius of curvature: 1000 mm

Product features

High reflectivity; Low loss; High precision surface processing; Precision flat and concave surface design; High power tolerance

Part Number

MP-CRD--FuSi-1595-1-49

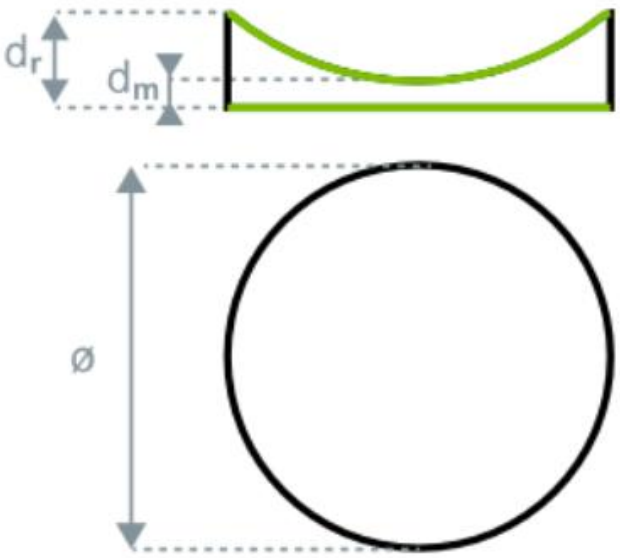
Application area

Trace gas detection | Spectroscopy research | Laser technology | Laser spectroscopy and metrology | Quantum optics and precision measurement

Core parameters

Wavelength	Reflectivity
1600-1700nm	>99.99%

Dimension Drawing

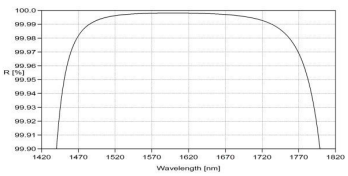
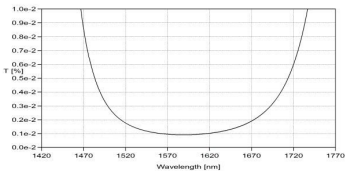


General Parameters

Model parameters

Optical parameters	Front (S2)	Optical parameters	Back side (S1)
Shape	Concave	shape	flat
Radius of curvature	1,000 mm (±1 %)	Chamfer	0.3 mm (±0.1 mm)
Chamfer	0.3 mm (±0.1 mm)	Test areaØe	twenty one
Test areaØe	20	Surface Tolerance	3/0.2(0.2) [L/10 @546.1nm]
Surface Tolerance	3/-(0.2) [L/10 reg. @546.1nm]	Cleanliness	5/2x0.04; L1x0.004
Cleanliness	5/1x0.016		

Coating Specifications	
Front (S2) (134129)	Back (S1) (131781)
1st working range: high reflection HR (0°, 1520-1670nm)>99.99%	1st working range AR(0°,1520-1670nm)<0.25%
Category High Reflection Polarization unpol.	Category Anti-Reflectance Polarization unpol.

Angle of incidence 0° **Wavelength range 1520-1670nm** **High reflection HR > 99.99 %**	**Angle of incidence 0°** **Wavelength range 1520-1670nm** **AR / HT < 0.25 %**
2nd working range **T(0°,1520-1670nm)~0.001%**	
Category Transmittance **Polarization unpol.** **Angle of incidence 0°** **Wavelength range 1520-1670nm** **T ~ 0.001 %** HR(0°,1520-1670nm)>99.97% T(1600nm)~0.001% (low loss) fig. 1 reflection HR-region 0°  fig. 2 transmission HR-region 0°  	AR(0°,1520-1670nm)<0.2% fig. 1 reflection AR 0°