

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

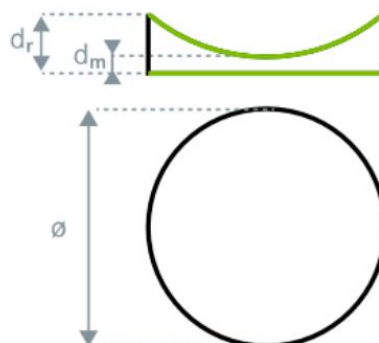
● Application area

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)
1 st working range: high reflection HR (0°, 1520-1670nm)>99.99%	1 st working range AR(0°,1520-1670nm)<0.25%

Category High Reflection

Polarization unpol.

Angle of incidence 0°

Wavelength range 1520-1670nm

High reflection HR > 99.99 %

Category Anti-Reflectance

Polarization unpol.

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°

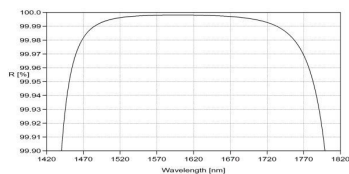
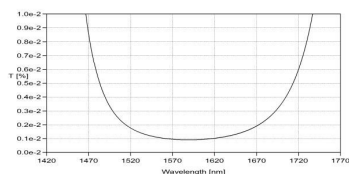


fig. 2 transmission HR-region 0°



AR(0°,1520-1670nm)<0.2%

fig. 1 reflection AR 0°

