

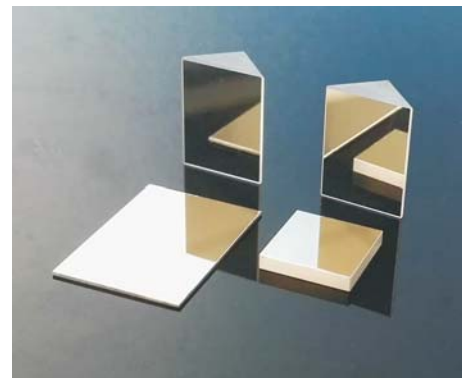
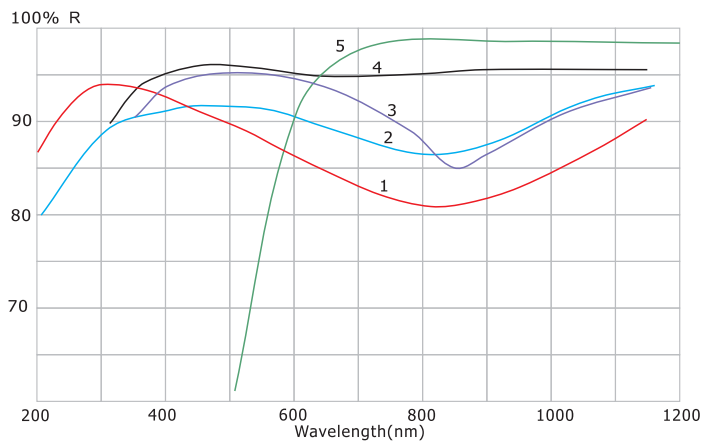
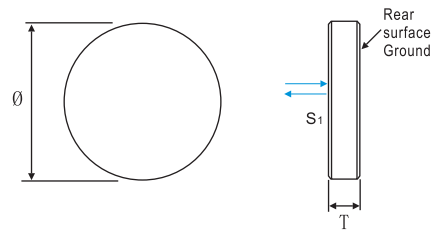
Metallic Mirrors

Metallic coatings are very broadband and relatively insensitive to incidence angle. They offer good performance at a low price. They are mostly commonly used. But metallic reflective coatings are delicate, only recommended for low power application and require care during cleaning.

There are three commonly used Metallic coatings: Aluminum, Silver, Gold.

General Specifications

Dimensional tolerance	$\pm 0.1\text{mm}$
Surface quality	80-50 S/D
Flatness	$\lambda/4 @ 633\text{nm}$
Bevel	Protective bevel
Front surface	Metallic coated
Rear surface	Fine ground

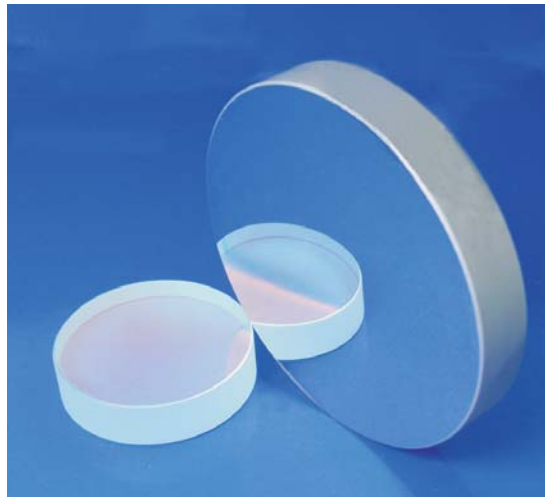


- | | |
|--------------------------|---|
| 1, Protected Aluminum | $R_{\text{avg}} > 87\%$ from 400nm to 800nm |
| 2, VIS Enhanced Aluminum | $R_{\text{avg}} > 93\%$ from 450nm to 750nm |
| 3, UV Enhanced Aluminum | $R_{\text{avg}} > 86\%$ from 250nm to 400 nm |
| 4, Protected Silver | $R_{\text{avg}} > 95\%$ from 400nm to $20\mu\text{m}$ |
| 5, Protected Gold | $R_{\text{avg}} > 98\%$ from 650nm to $16\mu\text{m}$ |

Item #	Material	Diameter	Thickness	Coating
MM10-AL	N-BK7	Ø10.0	2.0	Visible Enhanced AL
MM12-AL	N-BK7	Ø12.7	2.0	Visible Enhanced AL
MM15-AL	N-BK7	Ø15.0	3.0	Visible Enhanced AL
MM20-AL	N-BK7	Ø20.0	3.0	Visible Enhanced AL
MM25-AL	N-BK7	Ø25.4	3.0	Visible Enhanced AL

Item #	Material	Diameter	Thickness	Coating
MM10-AG	N-BK7	Ø10.0	2.0	Protected siliver
MM12-AG	N-BK7	Ø12.7	2.0	Protected siliver
MM15-AG	N-BK7	Ø15.0	3.0	Protected siliver
MM20-AG	N-BK7	Ø20.0	3.0	Protected siliver
MM25-AG	N-BK7	Ø25.4	3.0	Protected siliver

Item #	Material	Diameter	Thickness	Coating
MM10-AU	N-BK7	Ø10.0	2.0	Protected siliver
MM12-AU	N-BK7	Ø12.7	2.0	Protected siliver
MM15-AU	N-BK7	Ø15.0	3.0	Protected siliver
MM20-AU	N-BK7	Ø20.0	3.0	Protected siliver
MM25-AU	N-BK7	Ø25.4	3.0	Protected siliver



Price
on request

Volume
Discount

Custom
Design

Mirrors

(High energy reflective dielectric)

Dielectric coating mirrors provide excellent performance over a specific wavelength range. The maximum reflectivity can be up to 99.9% at specific wavelength and angle of incidence. Dielectric coating exhibit superior durability and damage resistance.

General Specifications

Substrate Materials: N-BK7, UV Fused silica

	Commercial Grade	Laser Grade
Dimensional tolerance	±0.1mm	±0.1mm
Surface quality	60-40 S/D	10-5 S/D
Flatness	$\lambda / 4 @ 633\text{nm}$	$\lambda / 8 @ 633\text{nm}$
Bevel	Protective bevel	Protective bevel

Front surface(S1)	HR @specific wavelength
Rear surface	None
Angle of incident	0° or 45°

Price
on request

Volume
Discount

Custom
Design

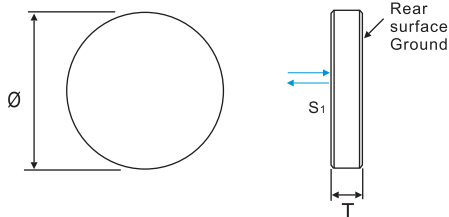
Diameter(mm)

Ø5.0	Ø10.0	Ø12.7	Ø15.0	Ø18.0
Ø20.0	Ø25.4	Ø38.0	Ø50.8	Ø76.2

Typical Thickness(mm)

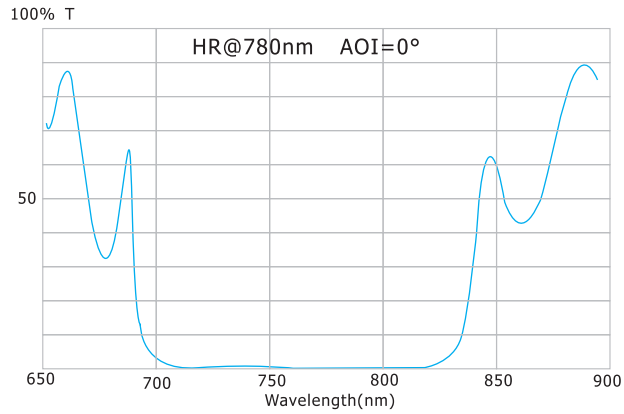
0.5	1.0	1.5	2.0	3.0
4.0	5.0	6.0	8.0	10.0

other sizes and shapes are available.

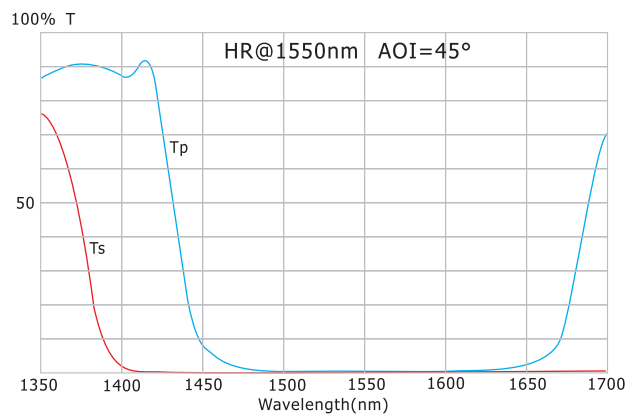


Typical High reflective coatings:

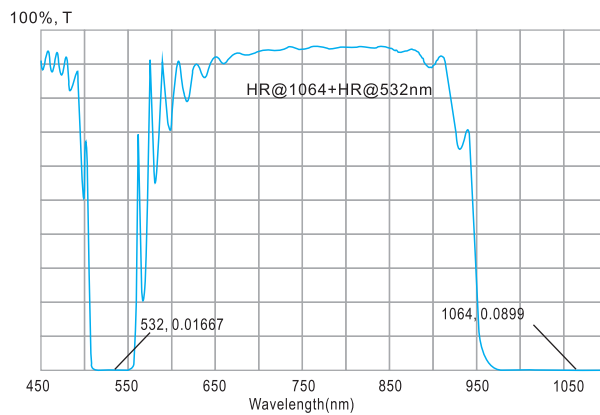
Laser line HR Coating, Normal incidence (0°)



Laser line, HR Coating, 45° Incidence



Dual Wavelength HR Coating, 0° Incidence



Dichroic Mirrors

Dichroic mirrors are designed to reflect one wavelength and transmit the other wavelength. The angle of incident usually are 0deg and 45deg.

General Specifications

Substrate Materials: N-BK7, UV Fused silica

	Commercial Grade	Laser Grade
Dimensional tolerance	±0.1mm	±0.1mm
Surface quality	60-40 S/D	10-5 S/D
Flatness	$\lambda/4 @ 633\text{nm}$	$\lambda/8 @ 633\text{nm}$
Bevel	Protective bevel	Protective bevel

Coating

Front surface(S1): HR @wavelength-1 + HT @wavelength-2
 Rear surface(S2): AR @wavelength-2
 Angle of incident 0° or 45°

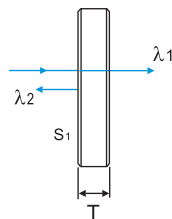
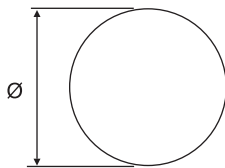
Diameter(mm)

Ø5.0	Ø10.0	Ø12.7	Ø15.0	Ø18.0
Ø20.0	Ø25.4	Ø38.0	Ø50.8	Ø76.2

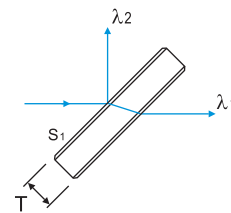
Thickness(mm)

0.5	1.0	1.5	2.0	3.0
4.0	5.0	6.0	8.0	10.0

other sizes and shapes are available.



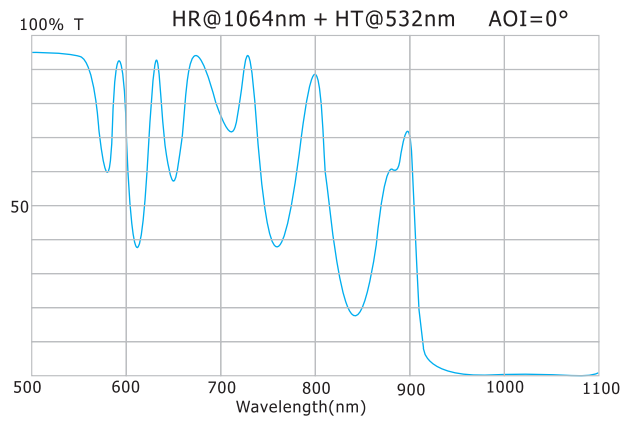
AOI=0°



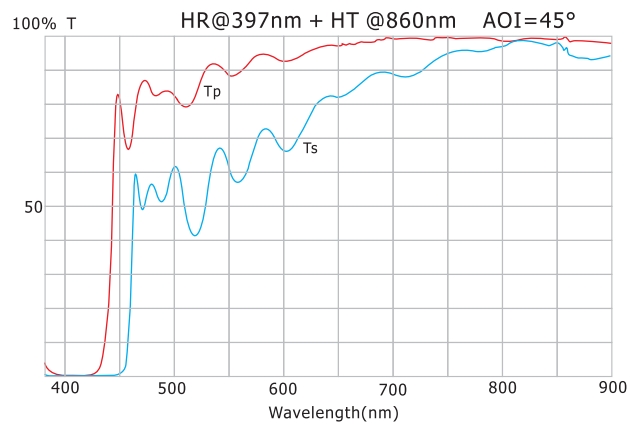
AOI=45°

Typical coatings:

Short wavelength pass



Long wavelength pass



Price on request Volume Discount Custom Design