

# Broadband Dielectric Multilayer Mirror

This broadband dielectric multilayer mirror has two types of oxide dielectric alternate multilayer films with different refractive indices that were vapor deposited on a flat substrate using ion-assisted film-forming technology.

This product is easy to handle due to a high reflectivity of 99% and above in comparison to metal mirrors, and an equivalent mirror surface solidity to glass.

## *Features*

- High reflectivity of 99% and above in a wide range wavelength, such as 400-1200 nm or 600-1700 nm
- Capability to use an incident angle range of 0-50 degrees
- High reflectance from both P and S polarized lights
- Almost no deterioration due to aging
- Capability to be used under high temperature and high humidity
- High CW laser proof stress due to almost no absorption loss in comparison to metal mirrors

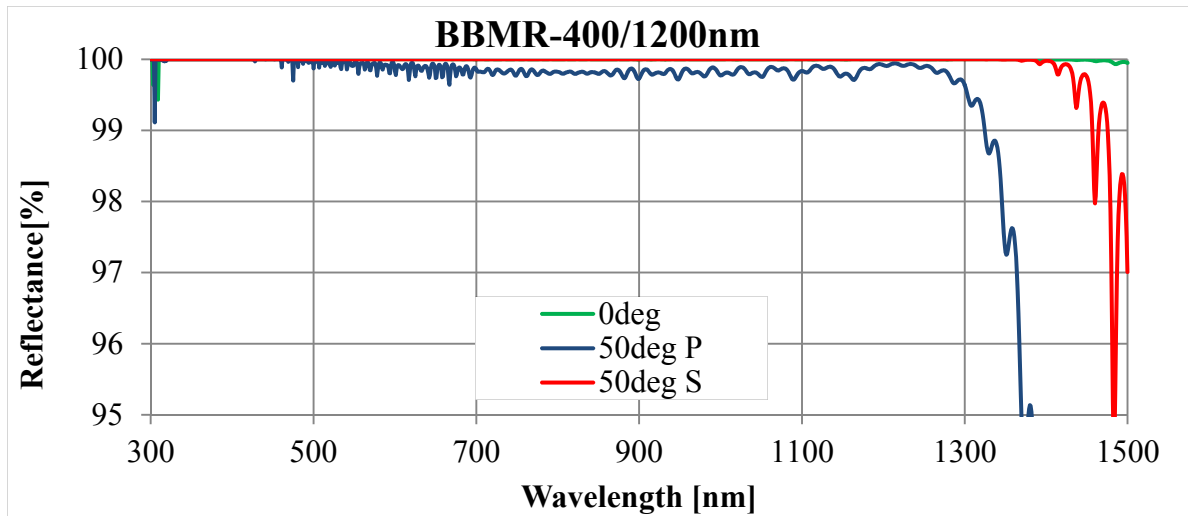


## *Typical Specifications*

Model	BBMR
Wavelength Range	400-1200 nm or 600-1700 nm
Reflectance	≥ 99%
Incidence Angle	0-50 degrees
Size	φ30 x 5 <sup>t</sup> mm, φ25.4 x 5 <sup>t</sup> mm
Substrate	Quartz
Substrate Surface Precision	λ/10 @ 632.8 nm
Parallelism	Within 3 minutes
Effective Diameter	80% of the actual diameter

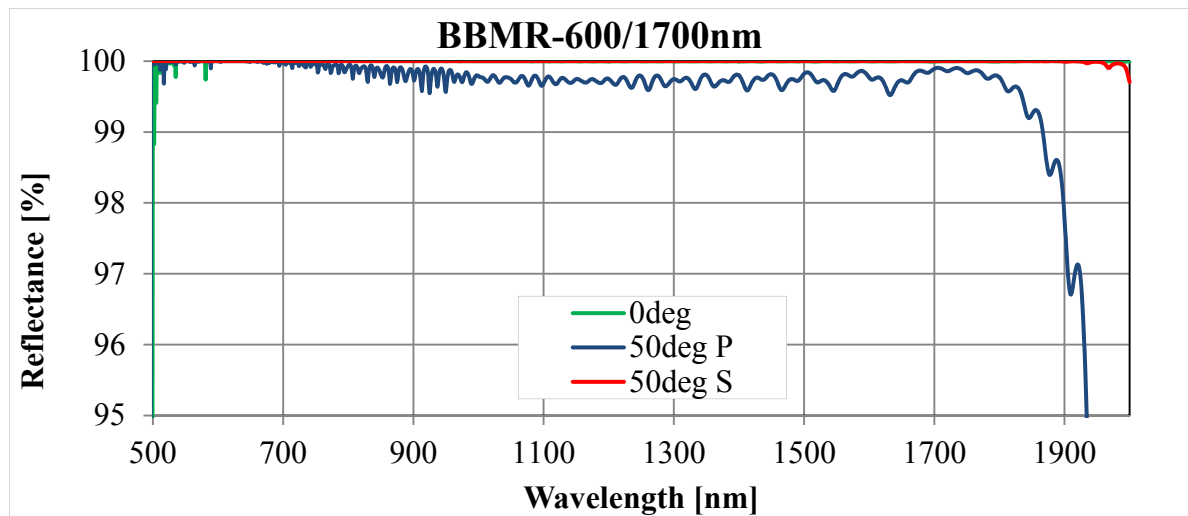
*Wavelength Characteristics of Reflectance (1)*

\* Wavelength Range: 400-1200 nm



*Wavelength Characteristics of Reflectance (2)*

\* Wavelength Range: 600-1700 nm



*Ordering Instructions*

**+Broadband Dielectric Multilayer Mirror**

**Order format: BBMR - (1) - (2)**

Order format example: BBMR-400/1200-B (Wavelength:400-1200nm, φ25.4mm)

(1) Wavelength	400/1200: 400-1200 nm    600/1700: 600-1700 nm
(2) External Diameter of Substrates	A: φ30 mm    B: φ25.4 mm (1 inch)