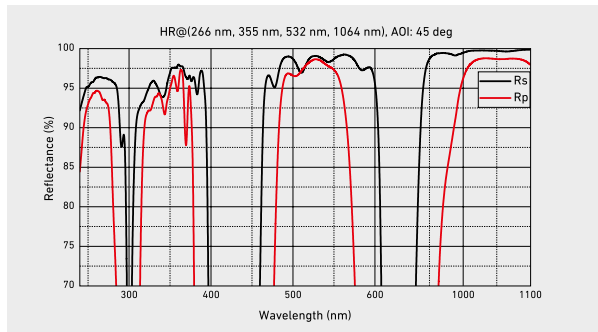


Dual and multi wavelength mirrors



Dual and multi wavelength mirrors provide a high reflectance over several certain spectral ranges at a specific angle of incidence and polarization for non-normal incidence. Reflectance properties are

based on the optical interference phenomena of reflections from multiple dielectric thin-film layers, which are carefully deposited on UV grade fused silica optical substrates.

Main features

- Mirror substrates fabricated from high-quality UV grade fused silica
- Standard substrate dimensions are ø25,4 x 5 mm
- Designed to be highly reflective at several certain wavelength ranges
- 0° or 45° angle of incidence selection
- Custom coatings, substrate material and dimensions are available upon request

Application examples

- Simultaneous beam steering and folding of fundamental radiation laser beam and its harmonics
- Laser system alignment using visible wavelength laser

Standard specifications

DUAL AND MULTI WAVELENGTH MIRRORS	
Substrate material	UV grade fused silica
Substrate dimensions	ø25,4 x 5 mm
Clear aperture	>85%
Face dimensions tolerance	+0/-0,15 mm
Thickness tolerance	±0,25 mm
Parallelism error	<30 arcsec
Protective chamfers	<0,35 mm at 45°
Surface quality	20-10 S-D
Surface flatness	<λ/8@632,8 nm
Laser induced damage threshold	4 J/cm²@1064 nm, 10 ns (for 510-535 nm + 1020-1070 nm mirrors)

Standard products

MATERIAL	DIMENSIONS	WAVELENGTH RANGE	REFLECTANCE	AOI	SKU	PRICE
UVFS	ø25,4 x 5 mm	254-266 nm + 510-535 nm	>99%	0°	6330	105 €
		385-415 nm + 770-830 nm	>99,5%	0°	6331	85 €
		510-535 nm + 1020-1070 nm	>99,5%	0°	6332	85 €
		254-266 nm + 340-355 nm + 510-535 nm + 1020-1070 nm	>97%	0°	6329	145 €
		254-266 nm + 510-535 nm	Rs>99%, Rp>98%	45°	6334	105 €
		385-415 nm + 770-830 nm	Rs>99,5%, Rp>98,5%	45°	6335	85 €
		510-535 nm + 1020-1070 nm	Rs>99,5%, Rp>98,5%	45°	6336	85 €
		254-266 nm + 340-355 nm + 510-535 nm + 1020-1070 nm	Rs>97%, Rp>94%	45°	6333	145 €