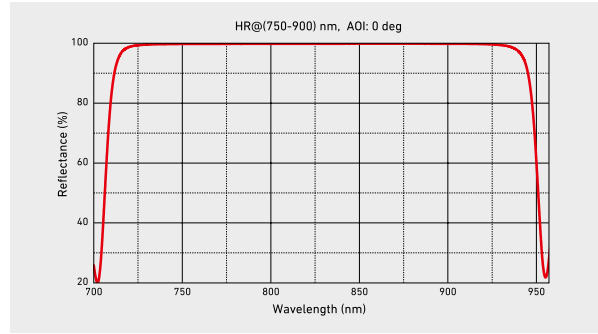
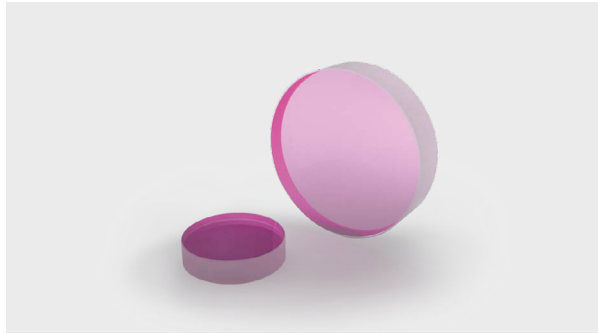


Broadband laser mirrors



Broadband laser mirrors provide high average reflectance over a broad spectral range at a specific angle of incidence and polarization for non-normal incidence. These 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 for a high reflectance (>99%) over a broad wavelength range
- 0° or 45° angle of incidence selection
- Custom coatings, substrate material and dimensions are available upon request

Application examples

- High reflectivity mirrors for tunable and broadband laser sources
- Broadband light beam steering and folding

Standard specifications

BROADBAND LASER MIRRORS	
Substrate material	UV grade fused silica
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	1 J/cm²@1064 nm, 10 ns (for 750-1100 nm mirrors)

Standard products

MATERIAL	DIMENSIONS	WAVELENGTH RANGE	AVERAGE REFLECTANCE	AOI	SKU	PRICE
UVFS	ø25,4 x 5 mm	350-400 nm	>99%	0°	6289	60 €
		400-700 nm	>99%	0°	6290	85 €
		750-1100 nm	>99%	0°	6323	85 €
		1280-1600 nm	>99%	0°	6326	105 €
		350-400 nm	>99% (s+p)/2	45°	6327	60 €
		400-700 nm	>99% (s+p)/2	45°	6324	85 €
		750-1100 nm	>99% (s+p)/2	45°	6328	85 €
		1280-1600 nm	>99% (s+p)/2	45°	6325	105 €