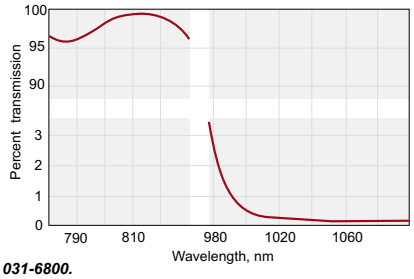
DICHROIC MIRRORS

- **Laser Damage Threshold:**
  > 2 J/cm², 8 ns pulse, 1064 nm
  typical for BK7 substrates
  > 5 J/cm², 8 ns pulse, 1064 nm
  typical for UV FS substrates
- **Back side antireflection coated: R < 0.5%**
- **Parallelism: 30 arcsec**



031-6800.
HR > 99.5% @ 1064 nm, HT > 95% @ 808 nm, AOI = 0°

SUBSTRATE

Material	UV grade fused silica or BK7 glass
S1 Surface Flatness	λ/10 typical at 633 nm
S1 Surface Quality	20–10 scratch & dig (MIL-PRF-13830B)
S2 Surface Flatness	λ/10 typical at 633 nm
S2 Surface Quality	20–10 scratch & dig (MIL-PRF-13830B)
Diameter Tolerance	+0.00 mm -0.12 mm
Thickness Tolerance	±0.25 mm
Parallelism	30 arcsec
Chamfer	0.3 mm at 45° typical

COATING

Technology	Electron beam multilayer dielectric
Adhesion and Durability	Per MIL-C-675A. Insoluble in lab solvents
Clear Aperture	Exceeds central 85% of diameter
Laser Damage Threshold:	
BK7	2 J/cm², 8 ns pulse, 1064 nm typical
UV FS	5 J/cm², 8 ns pulse, 1064 nm typical
Coated Surface Flatness	λ/10 at 633 nm over 85% of diameter available

Reflected wavelength, nm, R > 99.5%	**Transmitted wavelength,** nm	**Transmission,** %	**AOI**	**Substrate material**	**Code** Ø12.7x3 mm	Ø25.4x6 mm	**Price,** EUR Ø12.7 / Ø25.4
633	1064	>90	45	BK7	**041-6105**	**042-6105**	90 / 115
1064	633	>90	45	BK7	**041-6605**	**042-6605**	95 / 120
1064	808	>95	0	BK7	**031-6800**	**032-6800**	95 / 120
1064	808	>95	45	BK7	**031-6805**	**032-6805**	95 / 120
1064	808	>95	0	UV FS	**041-6800**	**042-6800**	120 / 150
1064	808	>95	45	UV FS	**041-6805**	**042-6805**	120 / 150

Non Standard Dichroic Mirrors are available for fast off-the-shelf delivery. Check the availability at **www.eksmaoptics.com**

HOUSING ACCESSORIES

Kinematic Mirror Mount 840-0020
See page 8.58

Kinematic Beamsplitter Mount 840-0030-02
See page 8.58