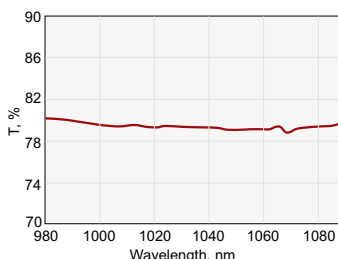


LASER BEAMSPLITTERS

Features

- Designed for average polarization: $R=(R_s+R_p)/2$ and $T=(T_s+T_p)/2$

Beamsplitter splits average polarized laser beam into two beams separated by 90° from each other.



042-7120A.
R = 20±3%, T = 80±3% @ 1064 nm

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
Damage Threshold:	
BK7	>5 J/cm ² , 8 nsec pulse, 1064 nm typical
UV FS	>8 J/cm ² , 8 nsec pulse, 1064 nm typical
Angle of Incidence	45±3 degrees
Back side antireflection coated	R < 0.5%

Designed for average polarization. $R=(R_s+R_p)/2$ and $T=(T_s+T_p)/2$

Wavelength, nm	Reflection, %	Transmission, %	Substrate material	Ø12.7x3 mm	Ø25.4x6 mm
				Catalogue number	Catalogue number
1064	20±3	80±3	BK7	031-7120A	032-7120A
1064	30±3	70±3	BK7	031-7130A	032-7130A
1064	50±3	50±3	BK7	031-7150A	032-7150A
1064	70±3	30±3	BK7	031-7170A	032-7170A
1064	75±3	25±3	BK7	031-7175A	032-7175A
1064	80±3	20±3	BK7	031-7180A	032-7180A
1064	90±3	10±3	BK7	031-7190A	032-7190A
532	20±3	80±3	BK7	031-7220A	032-7220A
532	30±3	70±3	BK7	031-7230A	032-7230A
532	50±3	50±3	BK7	031-7250A	032-7250A
532	70±3	30±3	BK7	031-7270A	032-7270A
532	80±3	20±3	BK7	031-7280A	032-7280A
1064	20±3	80±3	UV FS	041-7120A	042-7120A
1064	30±3	70±3	UV FS	041-7130A	042-7130A
1064	50±3	50±3	UV FS	041-7150A	042-7150A
1064	70±3	30±3	UV FS	041-7170A	042-7170A
1064	75±3	25±3	UV FS	041-7175A	042-7175A
1064	80±3	20±3	UV FS	041-7180A	042-7180A
1064	90±3	10±3	UV FS	041-7190A	042-7190A
532	20±3	80±3	UV FS	041-7220A	042-7220A
532	30±3	70±3	UV FS	041-7230A	042-7230A
532	50±3	50±3	UV FS	041-7250A	042-7250A
532	70±3	30±3	UV FS	041-7270A	042-7270A
532	80±3	20±3	UV FS	041-7280A	042-7280A
355	20±3	80±3	UV FS	041-7320A	042-7320A
355	30±3	70±3	UV FS	041-7330A	042-7330A
355	50±3	50±3	UV FS	041-7350A	042-7350A
355	70±3	30±3	UV FS	041-7370A	042-7370A
355	80±3	20±3	UV FS	041-7380A	042-7380A
266	20±3	80±3	UV FS	041-7920A	042-7920A
266	30±3	70±3	UV FS	041-7930A	042-7930A
266	50±3	50±3	UV FS	041-7950A	042-7950A
266	70±3	30±3	UV FS	041-7970A	042-7970A
266	80±3	20±3	UV FS	041-7980A	042-7980A

Related Products

Uncoated Flat Windows

See page 1.9

Designed for S- polarization

Wavelength, nm	Reflection, %	Transmission, %	Substrate material	Ø12.7x3 mm Catalogue number	Ø25.4x6 mm Catalogue number
1064	20±3	80±3	BK7	031-7120S	032-7120S
1064	30±3	70±3	BK7	031-7130S	032-7130S
1064	50±3	50±3	BK7	031-7150S	032-7150S
1064	70±3	30±3	BK7	031-7170S	032-7170S
1064	80±3	20±3	BK7	031-7180S	032-7180S
532	20±3	80±3	BK7	031-7220S	032-7220S
532	30±3	70±3	BK7	031-7230S	032-7230S
532	50±3	50±3	BK7	031-7250S	032-7250S
532	70±3	30±3	BK7	031-7270S	032-7270S
532	80±3	20±3	BK7	031-7280S	032-7280S
1064	20±3	80±3	UV FS	041-7120S	042-7120S
1064	30±3	70±3	UV FS	041-7130S	042-7130S
1064	50±3	50±3	UV FS	041-7150S	042-7150S
1064	70±3	30±3	UV FS	041-7170S	042-7170S
1064	80±3	20±3	UV FS	041-7180S	042-7180S
532	20±3	80±3	UV FS	041-7220S	042-7220S
532	30±3	70±3	UV FS	041-7230S	042-7230S
532	50±3	50±3	UV FS	041-7250S	042-7250S
532	70±3	30±3	UV FS	041-7270S	042-7270S
532	80±3	20±3	UV FS	041-7280S	042-7280S
355	20±3	80±3	UV FS	041-7320S	042-7320S
355	30±3	70±3	UV FS	041-7330S	042-7330S
355	50±3	50±3	UV FS	041-7350S	042-7350S
355	70±3	30±3	UV FS	041-7370S	042-7370S
355	80±3	20±3	UV FS	041-7380S	042-7380S
266	20±3	80±3	UV FS	041-7920S	042-7920S
266	30±3	70±3	UV FS	041-7930S	042-7930S
266	50±3	50±3	UV FS	041-7950S	042-7950S
266	70±3	30±3	UV FS	041-7970S	042-7970S
266	80±3	20±3	UV FS	041-7980S	042-7980S

Housing accessories

Kinematic Mirror and Beamsplitter Mount
840-0030-02



Adapter for Beamsplitter at 45° 840-0116



Flipping Mirror/ Beamsplitter Mount 840-0155



Find more at EksmaOptics.com

Designed for P- polarization

Wavelength, nm	Reflection, %	Transmission, %	Substrate material	Ø12.7x3 mm Catalogue number	Ø25.4x6 mm Catalogue number
1064	20±3	80±3	BK7	031-7120P	032-7120P
1064	30±3	70±3	BK7	031-7130P	032-7130P
1064	50±3	50±3	BK7	031-7150P	032-7150P
1064	70±3	30±3	BK7	031-7170P	032-7170P
1064	80±3	20±3	BK7	031-7180P	032-7180P
532	20±3	80±3	BK7	031-7220P	032-7220P
532	30±3	70±3	BK7	031-7230P	032-7230P
532	50±3	50±3	BK7	031-7250P	032-7250P
532	70±3	30±3	BK7	031-7270P	032-7270P
532	80±3	20±3	BK7	031-7280P	032-7280P
1064	20±3	80±3	UV FS	041-7120P	042-7120P
1064	30±3	70±3	UV FS	041-7130P	042-7130P
1064	50±3	50±3	UV FS	041-7150P	042-7150P
1064	70±3	30±3	UV FS	041-7170P	042-7170P
1064	80±3	20±3	UV FS	041-7180P	042-7180P
532	20±3	80±3	UV FS	041-7220P	042-7220P
532	30±3	70±3	UV FS	041-7230P	042-7230P
532	50±3	50±3	UV FS	041-7250P	042-7250P
532	70±3	30±3	UV FS	041-7270P	042-7270P
532	80±3	20±3	UV FS	041-7280P	042-7280P
355	20±3	80±3	UV FS	041-7320P	042-7320P
355	30±3	70±3	UV FS	041-7330P	042-7330P
355	50±3	50±3	UV FS	041-7350P	042-7350P
355	70±3	30±3	UV FS	041-7370P	042-7370P
355	80±3	20±3	UV FS	041-7380P	042-7380P
266	20±3	80±3	UV FS	041-7920P	042-7920P
266	30±3	70±3	UV FS	041-7930P	042-7930P
266	50±3	50±3	UV FS	041-7950P	042-7950P
266	70±3	30±3	UV FS	041-7970P	042-7970P
266	80±3	20±3	UV FS	041-7980P	042-7980P



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