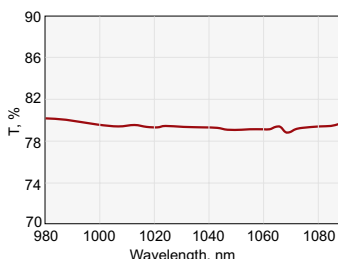


LASER BEAMSPLITTERS

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.
 $R = 20 \pm 3\%$, $T = 80 \pm 3\%$ @ 1064 nm

Substrate

Material	UV grade Fused Silica or BK7 glass
S1 Surface Flatness	$\lambda/10$ typical at 633 nm
S1 Surface Quality	20–10 scratch & dig (MIL-PRF-13830B)
S2 Surface Flatness	$\lambda/10$ 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 \pm 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	Price, EUR	Catalogue number	Price, EUR
1064	20±3	80±3	BK7	031-7120A	86	032-7120A	109
1064	30±3	70±3	BK7	031-7130A	86	032-7130A	109
1064	50±3	50±3	BK7	031-7150A	86	032-7150A	109
1064	70±3	30±3	BK7	031-7170A	86	032-7170A	109
1064	75±3	25±3	BK7	031-7175A	86	032-7175A	109
1064	80±3	20±3	BK7	031-7180A	86	032-7180A	109
1064	90±3	10±3	BK7	031-7190A	86	032-7190A	109
532	20±3	80±3	BK7	031-7220A	84	032-7220A	107
532	30±3	70±3	BK7	031-7230A	84	032-7230A	107
532	50±3	50±3	BK7	031-7250A	84	032-7250A	107
532	70±3	30±3	BK7	031-7270A	84	032-7270A	107
532	80±3	20±3	BK7	031-7280A	84	032-7280A	107
1064	20±3	80±3	UV FS	041-7120A	109	042-7120A	132
1064	30±3	70±3	UV FS	041-7130A	109	042-7130A	132
1064	50±3	50±3	UV FS	041-7150A	109	042-7150A	132
1064	70±3	30±3	UV FS	041-7170A	109	042-7170A	132
1064	75±3	25±3	UV FS	041-7175A	109	042-7175A	132
1064	80±3	20±3	UV FS	041-7180A	109	042-7180A	132
1064	90±3	10±3	UV FS	041-7190A	109	042-7190A	132
532	20±3	80±3	UV FS	041-7220A	107	042-7220A	130
532	30±3	70±3	UV FS	041-7230A	107	042-7230A	130
532	50±3	50±3	UV FS	041-7250A	107	042-7250A	130
532	70±3	30±3	UV FS	041-7270A	107	042-7270A	130
532	80±3	20±3	UV FS	041-7280A	107	042-7280A	130
355	20±3	80±3	UV FS	041-7320A	121	042-7320A	155
355	30±3	70±3	UV FS	041-7330A	121	042-7330A	155
355	50±3	50±3	UV FS	041-7350A	121	042-7350A	155
355	70±3	30±3	UV FS	041-7370A	121	042-7370A	155
355	80±3	20±3	UV FS	041-7380A	121	042-7380A	155
266	20±3	80±3	UV FS	041-7920A	132	042-7920A	167
266	30±3	70±3	UV FS	041-7930A	132	042-7930A	167
266	50±3	50±3	UV FS	041-7950A	132	042-7950A	167
266	70±3	30±3	UV FS	041-7970A	132	042-7970A	167
266	80±3	20±3	UV FS	041-7980A	132	042-7980A	167

Related Products

Uncoated Flat Windows

See page 1.9

Designed for S- polarization

Wavelength, nm	Reflection, %	Transmission, %	Substrate material	Ø12.7x3 mm		Ø25.4x6 mm	
				Catalogue number	Price, EUR	Catalogue number	Price, EUR
1064	20±3	80±3	BK7	031-7120S	86	032-7120S	109
1064	30±3	70±3	BK7	031-7130S	86	032-7130S	109
1064	50±3	50±3	BK7	031-7150S	86	032-7150S	109
1064	70±3	30±3	BK7	031-7170S	86	032-7170S	109
1064	80±3	20±3	BK7	031-7180S	86	032-7180S	109
532	20±3	80±3	BK7	031-7220S	84	032-7220S	107
532	30±3	70±3	BK7	031-7230S	84	032-7230S	107
532	50±3	50±3	BK7	031-7250S	84	032-7250S	107
532	70±3	30±3	BK7	031-7270S	84	032-7270S	107
532	80±3	20±3	BK7	031-7280S	84	032-7280S	107
1064	20±3	80±3	UV FS	041-7120S	109	042-7120S	132
1064	30±3	70±3	UV FS	041-7130S	109	042-7130S	132
1064	50±3	50±3	UV FS	041-7150S	109	042-7150S	132
1064	70±3	30±3	UV FS	041-7170S	109	042-7170S	132
1064	80±3	20±3	UV FS	041-7180S	109	042-7180S	132
532	20±3	80±3	UV FS	041-7220S	107	042-7220S	130
532	30±3	70±3	UV FS	041-7230S	107	042-7230S	130
532	50±3	50±3	UV FS	041-7250S	107	042-7250S	130
532	70±3	30±3	UV FS	041-7270S	107	042-7270S	130
532	80±3	20±3	UV FS	041-7280S	107	042-7280S	130
355	20±3	80±3	UV FS	041-7320S	121	042-7320S	155
355	30±3	70±3	UV FS	041-7330S	121	042-7330S	155
355	50±3	50±3	UV FS	041-7350S	121	042-7350S	155
355	70±3	30±3	UV FS	041-7370S	121	042-7370S	155
355	80±3	20±3	UV FS	041-7380S	121	042-7380S	155
266	20±3	80±3	UV FS	041-7920S	132	042-7920S	167
266	30±3	70±3	UV FS	041-7930S	132	042-7930S	167
266	50±3	50±3	UV FS	041-7950S	132	042-7950S	167
266	70±3	30±3	UV FS	041-7970S	132	042-7970S	167
266	80±3	20±3	UV FS	041-7980S	132	042-7980S	167

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		Ø25.4x6 mm	
				Catalogue number	Price, EUR	Catalogue number	Price, EUR
1064	20±3	80±3	BK7	031-7120P	86	032-7120P	109
1064	30±3	70±3	BK7	031-7130P	86	032-7130P	109
1064	50±3	50±3	BK7	031-7150P	86	032-7150P	109
1064	70±3	30±3	BK7	031-7170P	86	032-7170P	109
1064	80±3	20±3	BK7	031-7180P	86	032-7180P	109
532	20±3	80±3	BK7	031-7220P	84	032-7220P	107
532	30±3	70±3	BK7	031-7230P	84	032-7230P	107
532	50±3	50±3	BK7	031-7250P	84	032-7250P	107
532	70±3	30±3	BK7	031-7270P	84	032-7270P	107
532	80±3	20±3	BK7	031-7280P	84	032-7280P	107
1064	20±3	80±3	UV FS	041-7120P	109	042-7120P	132
1064	30±3	70±3	UV FS	041-7130P	109	042-7130P	132
1064	50±3	50±3	UV FS	041-7150P	109	042-7150P	132
1064	70±3	30±3	UV FS	041-7170P	109	042-7170P	132
1064	80±3	20±3	UV FS	041-7180P	109	042-7180P	132
532	20±3	80±3	UV FS	041-7220P	107	042-7220P	130
532	30±3	70±3	UV FS	041-7230P	107	042-7230P	130
532	50±3	50±3	UV FS	041-7250P	107	042-7250P	130
532	70±3	30±3	UV FS	041-7270P	107	042-7270P	130
532	80±3	20±3	UV FS	041-7280P	107	042-7280P	130
355	20±3	80±3	UV FS	041-7320P	121	042-7320P	155
355	30±3	70±3	UV FS	041-7330P	121	042-7330P	155
355	50±3	50±3	UV FS	041-7350P	121	042-7350P	155
355	70±3	30±3	UV FS	041-7370P	121	042-7370P	155
355	80±3	20±3	UV FS	041-7380P	121	042-7380P	155
266	20±3	80±3	UV FS	041-7920P	132	042-7920P	167
266	30±3	70±3	UV FS	041-7930P	132	042-7930P	167
266	50±3	50±3	UV FS	041-7950P	132	042-7950P	167
266	70±3	30±3	UV FS	041-7970P	132	042-7970P	167
266	80±3	20±3	UV FS	041-7980P	132	042-7980P	167