BROADBAND LOW GDD ULTRAFAST MIRRORS

Features

- High reflectivity and low group delay dispersion in broad region centered at 800 nm
- Rs > 99% @ 700 – 930 nm, |GDDs| < 30 fs² @ 700 – 930 nm
- Rp > 99% @ 730 – 870 nm, |GDDp| < 30 fs² @ 730 – 870 nm
- R > 99% @ 720 – 880 nm, |GDD| < 30 fs² @ 720 – 880 nm

Specifications

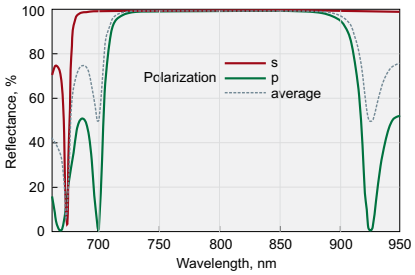
Coating	Hard Dielectric High Reflection
Angle of incidence	0 or 45±3°
Designed for average polarization	R=(Rs+Rp)/2
Laser damage threshold	>100 mJ/cm², 50 fsec pulse, 50 Hz, 800 nm typical

Substrate

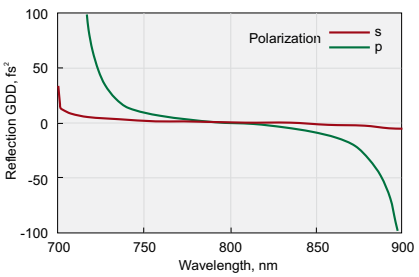
Material	UV grade Fused Silica or BK7 glas
S1 surface flatness	λ/10 at 633 nm
S1 surface quality	20 –10 scratch & dig (MIL-PRF-13830B)
S2 surface quality	Commercial polish
Diameter tolerance	+0.00 mm; -0.12 mm
Thickness tolerance	±0.25 mm
Wedge	< 3 min
Chamfer	0.3 mm at 45° typical

BROADBAND LOW GDD ULTRAFAST MIRRORS

Wavelength, nm	Diameter, mm	Thickness, mm	AOI = 0°			AOI = 45°		
			R, % (s+p)/2	Catalogue number		R, % (s+p)/2	Catalogue number	
Substrate material: BK7 grade A								
720-880	12.7	3.0	99.0	**071-7288-i0**		99.0	**071-7288**	
720-880	12.7	6.0	99.0	**071-7288T6-i0**		99.0	**071-7288T6**	
720-880	25.4	6.0	99.0	**072-7288-i0**		99.0	**072-7288**	
720-880	38.1	8.0	99.0	**074-7288-i0**		99.0	**074-7288**	
720-880	50.8	8.0	99.0	**075-7288-i0**		99.0	**075-7288**	
720-880	76.2	12.7	99.0	**077-7288-i0**		99.0	**077-7288**	
720-880	101.6	15.0	99.0	**078-7288-i0**		99.0	**078-7288**	
Substrate material: UV grade Fused Silica								
720-880	12.7	3.0	99.0	**081-7288-i0**		99.0	**081-7288**	
720-880	12.7	6.0	99.0	**081-7288T6-i0**		99.0	**081-7288T6**	
720-880	25.4	6.0	99.0	**082-7288-i0**		99.0	**082-7288**	
720-880	38.1	8.0	99.0	**084-7288-i0**		99.0	**084-7288**	
720-880	50.8	8.0	99.0	**085-7288-i0**		99.0	**085-7288**	
720-880	76.2	12.7	99.0	**087-7288-i0**		99.0	**087-7288**	
720-880	101.6	15.0	99.0	**088-7288-i0**		99.0	**088-7288**	



HR>99% @ 720-880 nm, AOI=45°



HR>99% @ 720-880 nm, AOI=45°

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