

BROADBAND ULTRAFast Ti:Sapphire LASER MIRRORS

High reflectivity and low group velocity dispersion in broad region centered at 800 nm

SPECIFICATIONS

Coating	Hard Dielectric High Reflection or Ion Beam Sputtering
Angle of Incidence	0 or 45±3°
Designed for average polarization	$R=(R_s+R_p)/2$
Laser Damage Threshold	>50 mJ/cm ² , 50 fsec pulse, 800 nm typical

SUBSTRATE

Material	UV grade Fused Silica or BK7 glas
S1 Surface Flatness	
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 Ultrafast Ti:Sapphire Laser Mirrors

Substrate material: **BK7 grade A**

Catalogue number		Diameter, mm	Thickness T, mm	Wavelength, nm	R, % (s+p)/2
AOI = 0°	AOI = 45°				
071-7288-i0	071-7288	12.7	3.0	720-880	99.0
072-7288-i0	072-7288	25.4	6.0	720-880	99.0
074-7288-i0	074-7288	38.1	8.0	720-880	99.0
075-7288-i0	075-7288	50.8	8.0	720-880	99.0
077-7288-i0	077-7288	76.2	12.7	720-880	99.0

Broadband Ultrafast Ti:Sapphire Laser Mirrors

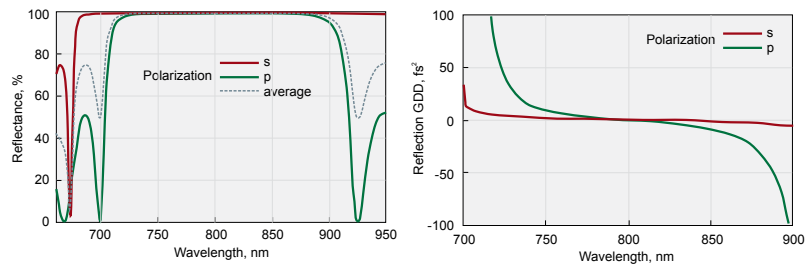
Substrate material:
UV grade Fused Silica

Catalogue number		Diameter, mm	Thickness T, mm	Wavelength, nm	R, % (s+p)/2
AOI = 0°	AOI = 45°				
081-7288-i0	081-7288	12.7	3.0	720-880	99.0
082-7288-i0	082-7288	25.4	6.0	720-880	99.0
 082-7288HHR-i0	082-7288HHR	25.4	6.0	720-880	99.9 / 99.8
084-7288-i0	084-7288	38.1	8.0	720-880	99.0
085-7288-i0	085-7288	50.8	8.0	720-880	99.0
087-7288-i0	087-7288	76.2	12.7	720-880	99.0

RELATED PRODUCTS

Metallic Coated Mirrors
See page 1.19

Kinematic Mirror / Beamsplitter Mounts 840-0056
See page 8.62



HR>99% @720-880nm, AOI=45°