

## BROADBAND LOW GDD ULTRAFAST MIRRORS

### FEATURES

- › High reflectivity and low group delay dispersion in broad region centered at 800 nm
- ›  $R_s > 99\%$  @ 700 – 930 nm,  $|GDD_s| < 30 \text{ fs}^2$  @ 700 – 930 nm
- ›  $R_p > 99\%$  @ 730 – 870 nm,  $|GDD_p| < 30 \text{ fs}^2$  @ 730 – 870 nm
- ›  $R > 99\%$  @ 720 – 880 nm,  $|GDD| < 30 \text{ fs}^2$  @ 720 – 880 nm

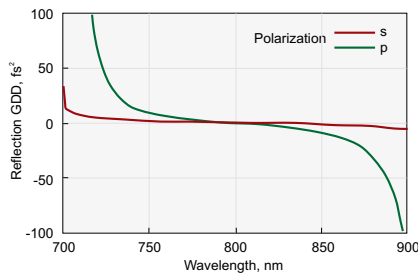
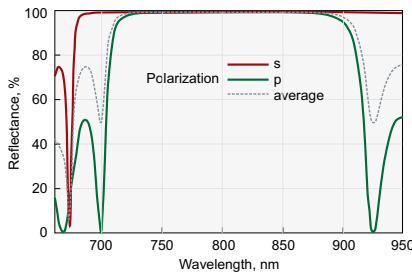
### SPECIFICATIONS

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

### SUBSTRATE

Material	UV grade Fused Silica or BK7 glas
S1 Surface Flatness	$\lambda/10$ 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	$\pm 0.25 \text{ mm}$
Wedge	$< 3 \text{ min}$
Chamfer	0.3 mm at $45^\circ$ typical

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HR > 99% @ 720-880 nm, AOI = 45°

Wavelength, nm	Diameter, mm	Thickness, mm	AOI = 0°			AOI = 45°		
			R, % (s+p)/2	Catalogue number	Price, EUR	R, % (s+p)/2	Catalogue number	Price, EUR

#### Substrate material: BK7 grade A

720-880	12.7	3.0	99.0	<a href="#">071-7288-i0</a>	86	99.0	<a href="#">071-7288</a>	86
720-880	12.7	6.0	99.0	<a href="#">071-7288T6-i0</a>	86	99.0	<a href="#">071-7288T6</a>	86
720-880	25.4	6.0	99.0	<a href="#">072-7288-i0</a>	104	99.0	<a href="#">072-7288</a>	104
720-880	38.1	8.0	99.0	<a href="#">074-7288-i0</a>	195	99.0	<a href="#">074-7288</a>	195
720-880	50.8	8.0	99.0	<a href="#">075-7288-i0</a>	220	99.0	<a href="#">075-7288</a>	220
720-880	76.2	12.7	99.0	<a href="#">077-7288-i0</a>	395	99.0	<a href="#">077-7288</a>	395
720-880	101.6	15.0	99.0	<a href="#">078-7288-i0</a>	540	99.0	<a href="#">078-7288</a>	540

#### Substrate material: UV grade Fused Silica

720-880	12.7	3.0	99.0	<a href="#">081-7288-i0</a>	111	99.0	<a href="#">081-7288</a>	111
720-880	12.7	6.0	99.0	<a href="#">081-7288T6-i0</a>	111	99.0	<a href="#">081-7288T6</a>	111
720-880	25.4	6.0	99.0	<a href="#">082-7288-i0</a>	129	99.0	<a href="#">082-7288</a>	129
720-880	25.4	6.0	99.9	<a href="#">082-7288HHR-i0</a>	145	99.8	<a href="#">082-7288HHR</a>	145
720-880	38.1	8.0	99.0	<a href="#">084-7288-i0</a>	225	99.0	<a href="#">084-7288</a>	225
720-880	50.8	8.0	99.0	<a href="#">085-7288-i0</a>	255	99.0	<a href="#">085-7288</a>	255
720-880	76.2	12.7	99.0	<a href="#">087-7288-i0</a>	460	99.0	<a href="#">087-7288</a>	460
720-880	101.6	15.0	99.0	<a href="#">088-7288-i0</a>	612	99.0	<a href="#">088-7288</a>	612

### RELATED PRODUCTS

Metallic Coated Mirrors  
See page 1.26

Kinematic Mirror / Beamsplitter  
Mounts 840-0056

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