

## BROADBAND LOW GDD ULTRAFAST MIRRORS

- High reflectivity and low group delay 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 <sup>2</sup> , 50 fsec pulse, 800 nm typical

### SUBSTRATE

Material	UV grade Fused Silica or BK7 glass
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	±0.25 mm
Wedge	< 3 min
Chamfer	0.3 mm at 45° typical

### Broadband Low GDD Ultrafast Mirrors

Substrate material:  
**BK7 grade A**

Catalogue number		Diameter, mm	Thickness T, mm	Wavelength, nm	R, % (s+p)/2	Price, EUR
AOI = 0°	AOI = 45°					
071-7288-i0	071-7288	12.7	3.0	720-880	99.0	86 / 86
072-7288-i0	072-7288	25.4	6.0	720-880	99.0	104 / 104
074-7288-i0	074-7288	38.1	8.0	720-880	99.0	127 / 127
075-7288-i0	075-7288	50.8	8.0	720-880	99.0	147 / 147
077-7288-i0	077-7288	76.2	12.7	720-880	99.0	215 / 215

Substrate material:  
**UV grade Fused Silica**

Catalogue number		Diameter, mm	Thickness T, mm	Wavelength, nm	R, % (s+p)/2	Price, EUR
AOI = 0°	AOI = 45°					
081-7288-i0	081-7288	12.7	3.0	720-880	99.0	111 / 111
082-7288-i0	082-7288	25.4	6.0	720-880	99.0	129 / 129
082-7288HHR-i0	082-7288HHR	25.4	6.0	720-880	99.9 / 99.8	185 / 185
084-7288-i0	084-7288	38.1	8.0	720-880	99.0	170 / 170
085-7288-i0	085-7288	50.8	8.0	720-880	99.0	210 / 210
087-7288-i0	087-7288	76.2	12.7	720-880	99.0	317 / 317

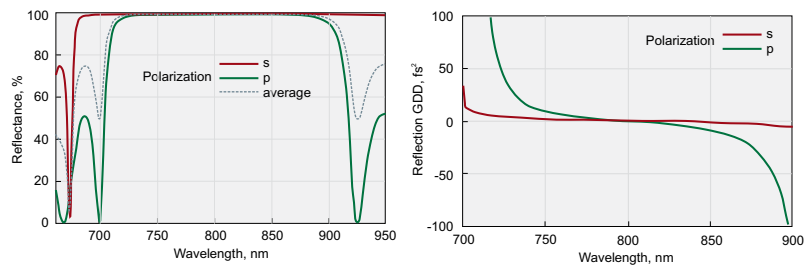
### RELATED PRODUCTS

Metallic Coated Mirrors

See page 1.20

Kinematic Mirror / Beamsplitter Mounts 840-0056

See page 8.66



HR>99% @720-880nm, AOI=45°