

High reflective Laser Mirrors for High Power Laser Applications

SCHOTT's Laser Mirrors with high reflective, broadband coatings especially suitable for high power laser applications

Product Information

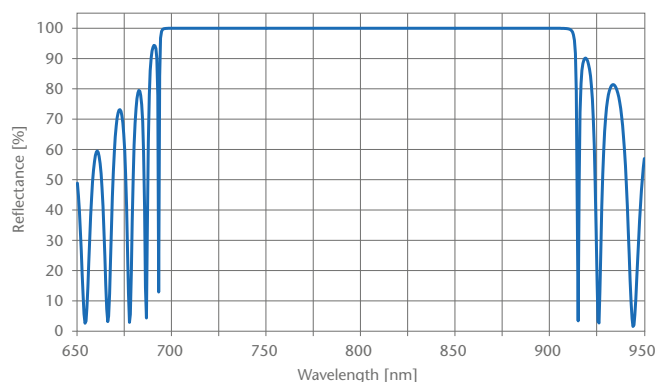
Mirror with high reflective broadband coating (700–900 nm) for 45° incidence in S-polarization on SCHOTT N-BK7®, ZERODUR® or fused silica substrates

Advantages

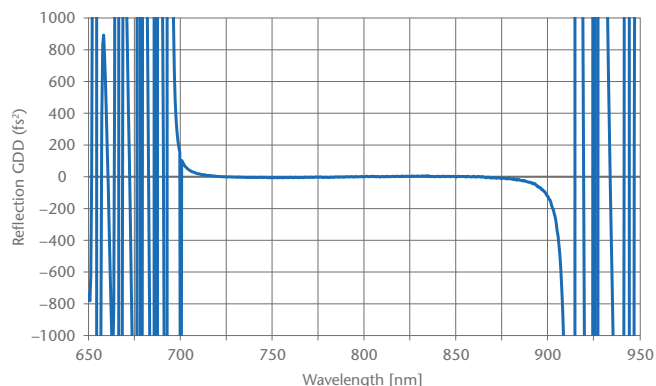
- Broad spectral range
- Double sided polished substrates
- High homogeneous SCHOTT N-BK7® for optimum WFE
- High laser damage threshold tested at Lidaris, Lithuania (according DIN EN ISO 21254)



Reflection curve REMAX 785/45° pol. S



Group Delay Dispersion (GDD) curve REMAX 785/45° pol. S



Technical Data

Available dimensions and surface quality

- Diameter: up to Ø 380 mm
- Polishing quality: P4 ($R_q = 0.4 - 0.5$ nm rms)
- Double sided polished

Spectral range coating

- $R > 99.5\%$ reflectivity from 700 nm to 900 nm

Typical Laser Damage Threshold

10 ns, 10 Hz	155 J/cm ² *
200 ps, 1 kHz	4.2 J/cm ² **
50 fs, 50 Hz	0.5 J/cm ² ***

Mirror substrates

- SCHOTT N-BK7®
- ZERODUR®
- Fused Silica
- Custom

* tested at SPICA, USA

** tested by LOA, France

*** tested at Lidaris, Lithuania



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