# 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

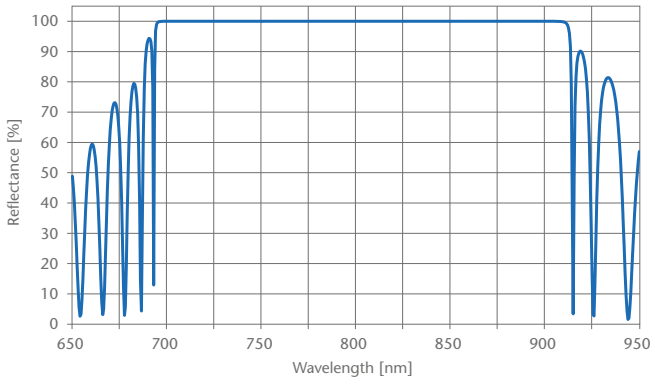
## Product Information

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

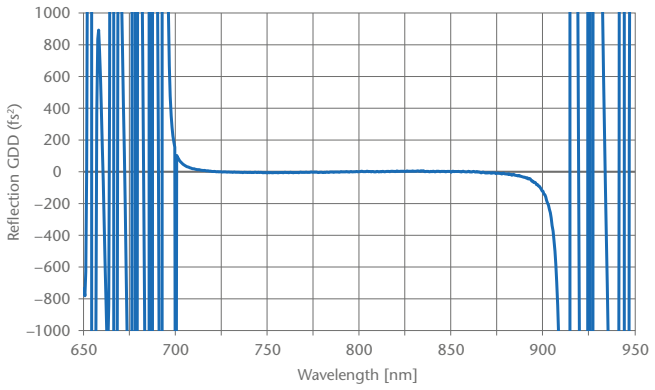
## Advantages

- 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

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| **Available dimensions and surface quality** | |
| • Diameter: up to Ø 380 mm<br>• Polishing quality: P4 ($R_q$ = 0.4 – 0.5 nm rms)<br>• 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/cm²* |
| 200 ps, 1kHz | 4.2 J/cm²** |
| 50 fs, 50 Hz | 0.5 J/cm²*** |
| **Mirror substrates** | |
| • SCHOTT N-BK7®<br>• ZERODUR®<br>• Fused Silica<br>• Custom | |

* tested at SPICA, USA
** tested by LOA, France
*** tested at Lidaris, Lithuania



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