

TECHSPEC®

PeakPower Low-GDD Ultrafast Dielectric Mirror, 920nm, 45° AOI, 50.8mm Dia., 9.53mm Thick


 Stock #29-522 **3 In Stock**

- 1 +

£632^{.00}
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Volume Pricing	
Qty 1-5	£632.00 each
Qty 6-25	£604.00 each
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Prices shown are exclusive of VAT/local taxes

Product Downloads

- [Curve:pdf](#)
- [EO Spec Sheet](#)
- [Download All](#)

Physical & Mechanical Properties

Diameter (mm):	50.80 +0.00/-0.10	Thickness (mm):	9.53 ±0.10
Edges:	Commercial Polish	Bevel:	Protective as needed

Optical Properties

Surface Quality:	10-5	Coating Specification:	R _s > 99.50% @ 840 - 1010nm @ 45° AOI R _p > 99.50% @ 870 - 980nm @ 45° AOI
GDD Specification:	0±50 fs ² @ 840 - 1010nm @ 45° AOI (s-pol) 0±50 fs ² @ 880 - 960nm @ 45° AOI (p-pol)	Surface Flatness (P-V):	λ/10
Design Wavelength DWL (nm):	840 - 1010, 870 - 980	Damage Threshold, Reference:	0.5J/cm ² @ 920nm, 100-on-1, S-Polarization, 5Hz, Pulse Duration 25fs, 350µm Dia.

Regulatory Compliance

 Certificate of Conformance: [View](#)

- High Femtosecond Laser Damage Threshold exceeding $0.75\text{J}/\text{cm}^2$ for 25fs Pulse Duration at 920nm
- > 99.5% Reflectivity with Near Zero Group Delay Dispersion
- **Platinum-Level 2024 Laser Focus World (LFW) Innovators Award**

TECHSPEC® PeakPower High LDT Low GDD Ultrafast Mirrors utilize an innovative design approach to maximize laser damage threshold for ultrafast pulses. These mirrors boast a near 0fs^2 GDD over a broad spectral bandwidth, making them suitable for the most demanding ultrafast applications. A 45° angle of incidence makes them perfectly suitable as turn mirrors in advanced ultrafast laser systems. TECHSPEC® PeakPower High LDT Low GDD Ultrafast Mirrors' high reflectivity ensures minimal loss while maintaining ultrashort pulse durations. The outstanding high laser damage threshold (LDT) values exceeding $0.75\text{J}/\text{cm}^2$ for 25fs Pulse Duration at 920nm for these mirrors ensures they will perform even under exceptionally high ultrafast pulse energies.

Resources

Media Type

- Application Note
- Technical Tool
- Trending in Optics
- Video
- Published Article
- FAQ
- Glossary
- Scientific Paper

 APPLICATION NOTE

An Introduction to Optical Coatings

 TECHNICAL TOOL

Gaussian Beams Calculator

 CASE STUDIES

Laser Optics for Eye Surgery

 APPLICATION NOTE

Effects of Laser Mirror Surface Flatness

 APPLICATION NOTE

Basics of Ultrafast Lasers

 APPLICATION NOTE

Highly-Dispersive Mirrors

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