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TECHSPEC®

PeakPower Low-GDD Ultrafast Dielectric Mirror, 920nm, 45° AOI, 25.4mm Dia., 6.35mm Thick



Stock #29-521 **20+ In Stock**

A\$726⁰⁰

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Volume Pricing	
Qty 1-5	A\$726.40 each
Qty 6-25	A\$691.20 each
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Product Downloads

Physical & Mechanical Properties

25.40 +0.00/-0.10 **Diameter (mm):**

6.35 ±0.10 **Thickness (mm):**

Commercial Polish **Edges:**

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:

$0 \pm 50 \text{ fs}^2$ @ 840 - 1010nm @ 45° AOI (s-pol)
 $0 \pm 50 \text{ fs}^2$ @ 880 - 960nm @ 45° AOI (p-pol)

Surface Flatness (P-V):

$\lambda/10$

Design Wavelength DWL (nm):

840 - 1010, 870 - 980

Damage Threshold, Reference:

0.5 J/cm^2 @ 920nm, 100-on-1, S-Polarization, 5Hz,
Pulse Duration 25fs, 350 μm Dia.

Regulatory Compliance

Certificate of Conformance:

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Product Details

- High Femtosecond Laser Damage Threshold exceeding 0.75 J/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 0 fs^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 J/cm^2 for 25fs Pulse Duration at 920nm for these mirrors ensures they will perform even under exceptionally high ultrafast pulse energies.