

TECHSPEC®

Max PeakPower Low-GDD Ultrafast Dielectric Mirror, 920nm, 45° AOI, 12.7mm Dia., 6.35mm Thick



Stock #29-523 **20+ In Stock**

⊖ 1 ⊕ \$512.40

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Volume Pricing	
Qty 1-5	\$512.40 each
Qty 6+	\$488.60 each
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Product Downloads

Physical & Mechanical Properties

12.70 +0.00/-0.10 **Diameter (mm):**

6.35 ±0.10 **Thickness (mm):**

Commercial Polish **Edges:**

Bevel:

Protective as needed

Optical Properties

10-5 **Surface Quality:**

Coating Specification:
 $R_s > 99.50\%$ @ 830 - 1010nm @ 45° AOI
 $R_p > 99.50\%$ @ 840 - 997nm @ 45° AOI

GDD Specification:
 $0 \pm 50 \text{ fs}^2$ @ 830 - 1010nm @ 45° AOI (s-pol)
 $0 \pm 50 \text{ fs}^2$ @ 861 - 966nm @ 45° AOI (p-pol)

$\lambda/10$ **Surface Flatness (P-V):**

830 - 1010 **Design Wavelength DWL (nm):**

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

Regulatory Compliance

[View](#) **Certificate of Conformance:**

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 0fs² 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.

Coating Curves