

**TECHSPEC®**

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



Stock #29-520 **11 In Stock**

⊖ 1 ⊕ **\$434.00**

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Volume Pricing	
Qty 1-5	<b>\$434.00</b> each
Qty 6-25	<b>\$411.60</b> each
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Product Downloads

**Physical & Mechanical Properties**

12.70 +0.00/-0.10	<b>Diameter (mm):</b>
6.35 ±0.10	<b>Thickness (mm):</b>
Commercial Polish	<b>Edges:</b>
	<b>Bevel:</b>

Protective as needed

## Optical Properties

10-5 **Surface Quality:**

**Coating Specification:**  
R<sub>s</sub> > 99.50% @ 840 - 1010nm @ 45° AOI  
R<sub>p</sub> > 99.50% @ 870 - 980nm @ 45° AOI

**GDD Specification:**  
0±50 fs<sup>2</sup> @ 840 - 1010nm @ 45° AOI (s-pol)  
0±50 fs<sup>2</sup> @ 880 - 960nm @ 45° AOI (p-pol)

λ/10 **Surface Flatness (P-V):**

**Design Wavelength DWL (nm):**  
840 - 1010, 870 - 980

**Damage Threshold, Reference:** □  
0.5J/cm<sup>2</sup> @ 920nm, 100-on-1, S-Polarization, 5Hz,  
Pulse Duration 25fs, 350μm Dia.

## Regulatory Compliance

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

## Product Details

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

## Coating Curves