

**TECHSPEC®**

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



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

⊖ 1 ⊕ C\$1,106<sup>00</sup>

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Volume Pricing	
Qty 1-5	C\$1,106.00 each
Qty 6-25	C\$1,057.00 each
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Product Downloads

**Physical & Mechanical Properties**

50.80 +0.00/-0.10 **Diameter (mm):**

9.53 ±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:

$0.5 \text{ J/cm}^2$  @ 920nm, 100-on-1, S-Polarization, 5Hz,  
Pulse Duration 25fs, 350 $\mu\text{m}$  Dia.

## Regulatory Compliance

### Certificate of Conformance:

[View](#)

## Product Details

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