

[See all 6 Products in Family](#)

TECHSPEC®

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



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

⊖ 1 ⊕ **\$1,106⁰⁰**

ADD TO CART

Volume Pricing	
Qty 1-5	\$1,106.00 each
Qty 6-25	\$1,057.00 each
Need More?	Request Quote

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

Regulatory Compliance

Certificate of Conformance:

[View](#)

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.