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 + **A$1,264**.00

ADD TO CART

Volume Pricing	
Qty 1-5	**A$1,264.00** each
Qty 6-25	**A$1,208.00** each
Need More?	Request Quote

Product Downloads

Physical & Mechanical Properties

Diameter (mm):
50.80 +0.00/-0.10

Thickness (mm):
9.53 ±0.10

Edges:
Commercial Polish

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±50 fs^2 @ 840 - 1010nm @ 45° AOI (s-pol)
0±50 fs^2 @ 880 - 960nm @ 45° AOI (p-pol)

Surface Flatness (P-V):
λ/10

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

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

Regulatory Compliance

Certificate of Conformance:
View

Product Details

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

;