

TECHSPEC[®]

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



Stock #29-523 20+ In Stock

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1

+

S\$512⁻⁴⁰

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Volume Pricing	
Qty 1-5	S\$512.40 each
Qty 6+	S\$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

GDD Specification:
0 ±50 fs² @ 830 - 1010nm @ 45° AOI

Surface Flatness (P-V):
λ/10

Design Wavelength DWL (nm):
830 - 1010

Damage Threshold, Reference: 
0.75J/cm² @ 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/cm² 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 0.75J/cm² for 25fs Pulse Duration at 920nm for these mirrors ensures they will perform even under exceptionally high ultrafast pulse energies.