

TECHSPEC[®]

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



Stock #29-522 4 In Stock

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1

+

€790^{.00}

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Volume Pricing	
Qty 1-5	€790,00 each
Qty 6-25	€755,00 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

Physical & Mechanical Properties

50.80 +0.00/-0.10

Diameter (mm):

9.53 ±0.10

Thickness (mm):

Commercial Polish

Edges:

Protective as needed	Bevel:
Optical Properties	
10-5	Surface Quality:
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)	
λ/10	Surface Flatness (P-V):
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	
View	Certificate of Conformance:

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.