

**TECHSPEC®**

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



Stock #29-520 **11 In Stock**

⊖ 1 ⊕ £248<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-5	£248.00 each
Qty 6-25	£235.20 each
Need More?	<a href="#">Request Quote</a>

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

**Physical & Mechanical Properties**

12.70 +0.00/-0.10 **Diameter (mm):**

6.35 ±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:**  
 $0 \pm 50 \text{ fs}^2$  @ 840 - 1010nm @ 45° AOI (s-pol)  
 $0 \pm 50 \text{ fs}^2$  @ 880 - 960nm @ 45° AOI (p-pol)

$\lambda/10$  **Surface Flatness (P-V):**

**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

[View](#) **Certificate of Conformance:**

## 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.

## Coating Curves