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**TECHSPEC®**

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



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

MRP ₹31,276

● Price inclusive of all taxes

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#### Volume Pricing

Qty 1-5	₹31,276 each
Qty 6-25	₹29,662 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

**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:**

$0.5 \text{ J/cm}^2$  @ 920nm, 100-on-1, S-Polarization, 5Hz,  
Pulse Duration 25fs, 350 $\mu\text{m}$  Dia.

## Regulatory Compliance

**Certificate of Conformance:**

[View](#)

**Country of Origin:**

United States

**Imported By:**

Edmund Optics India Private Limited  
267, Greystone Building, Second Floor,  
6th Cross Rd, Binnamangala,  
Stage 1, Indiranagar, Bengaluru,  
Karnataka, India 560038  
Phone: +91- 80-6845 0000

## 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  $45^\circ$  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