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TECHSPEC®

Max PeakPower High LDT Low GDD L AOI, 25.4mm Dia., 6.35mm Thick

920nm, 45°

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Stock #29-524 **20+ In Stock**

1

€510^{,00}

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| Volume Pricing | |
|----------------|-------------------------------|
| Qty 1-5 | €510,00 each |
| Qty 6+ | €482,00 each |
| Need More? | Request Quote |

Prices shown are exclusive of VAT/local taxes

Product Downloads



Curve:pdf



EO Spec Sheet



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Physical & Mechanical Properties

| | | | |
|-----------------------|----------------------|------------------------|----------------------|
| Diameter (mm): | 25.40 +0.00/-0.10 | Thickness (mm): | 6.35 ±0.10 |
| Edges: | Commercial Polish | Bevel: | Protective as needed |

Optical Properties

| | | | |
|------------------------------------|---|-------------------------------------|---|
| Surface Quality: | 10-5 | Coating Specification: | R _s > 99.50% @ 830 - 1010nm @ 45° AOI R _p > 99.50% @ 840 - 997nm @ 45° AOI |
| GDD Specification: | 0 ±50 fs ² @ 830 - 1010nm @ 45° AOI(s-pol) 0±50 fs ² @ 861 - 966nm @ 45° AOI (p-pol) | Surface Flatness (P-V): | λ/10 |
| Design Wavelength DWL (nm): | 830 - 1010 | Damage Threshold, Reference: | 0.75J/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
- > 99.5% Reflectivity with Near Zero Group Delay Dispersion
- **Platinum-Level 2024 Laser Focus Winner**

TECHSPEC® PeakPower High LDT Low GDD Ultrafast Mirrors provide excellent performance in advanced ultrafast laser systems. TECHSPEC® Ultrafast Mirrors feature an outstanding high laser damage threshold (LDT) and low group delay dispersion (GDD) over a broad spectral bandwidth, making them perfectly suitable as turn mirrors for maintaining ultrashort pulse durations. The mirrors will perform even under exceptionally high ultrafast pulse energies.

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Ultrafast pulses. These mirrors boast a near-zero group delay dispersion (GDD) over a broad spectral bandwidth, making them perfectly suitable as turn mirrors for maintaining ultrashort pulse durations. The mirrors will perform even under exceptionally high ultrafast pulse energies.

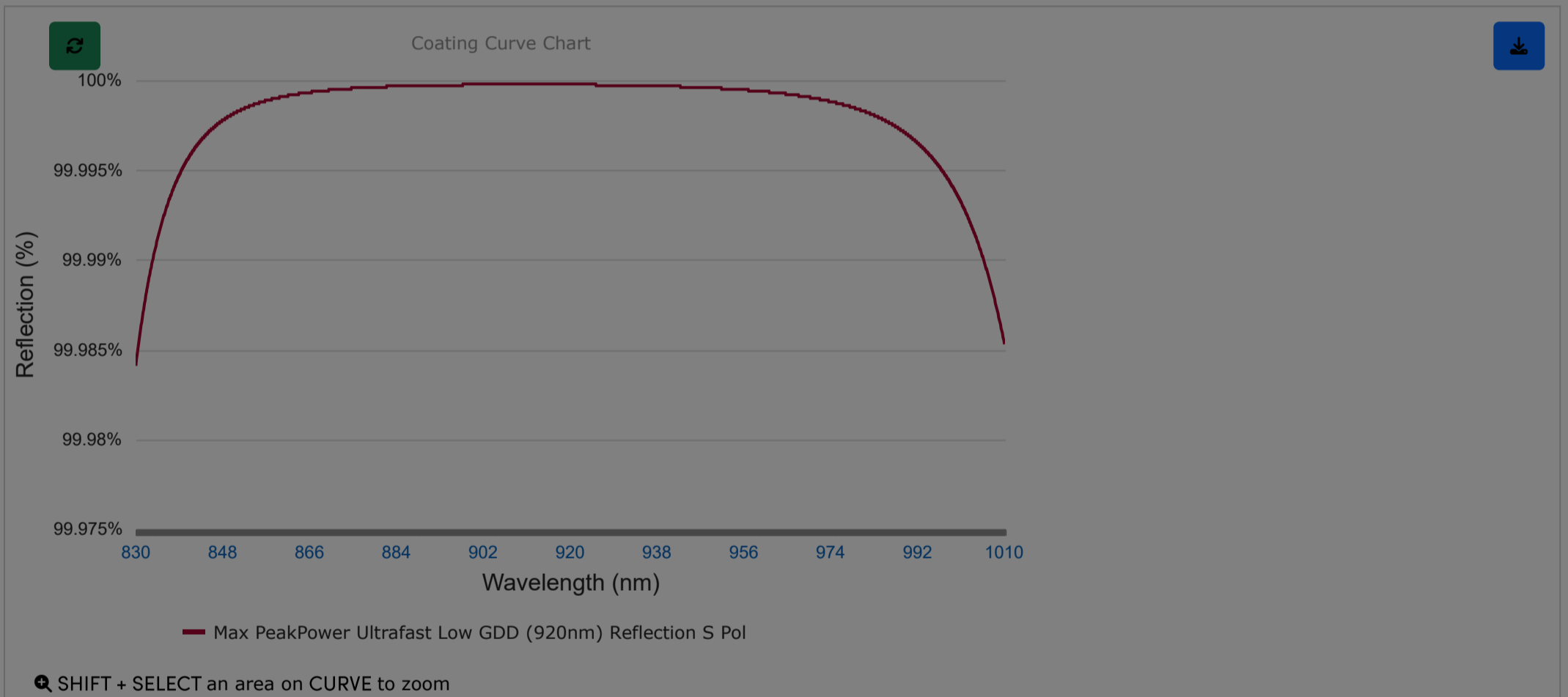
Coating Curves

Max PeakPower Ultrafast Low GDD (920nm) Reflection S Pol

Max PeakPower Ultrafast Low GDD (920nm) Reflection P Pol

Max PeakPower Ultrafast Low GDD (920nm) GDD_s

Max PeakPower Ultrafast Low GDD (920nm) GDD_p



Please note that coating performance outside each product's specified design range is theoretical and may vary.

Resources

Media Type

- Application Note
- Technical Tool
- Trending in Optics
- Video
- Published Article
- FAQ

APPLICATION NOTE

An Introduction to Optical Coatings

TECHNICAL TOOL

Gaussian Beams Calculator

CASE STUDIES

Laser Optics for Eye Surgery

Glossary

Scientific Paper

 APPLICATION NOTE

Effects of Laser
Mirror Surface
Flatness

 APPLICATION NOTE

Basics of
Ultrafast
Lasers

 APPLICATION NOTE

Highly-
Dispersive
Mirrors

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