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13.5nm, 25.4mm Dia, 5° AOI, EUV Spherical Mirror



TECHSPEC® Extreme Ultraviolet (EUV) Spherical Mirrors

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General

Spherical Mirror **Type:**

Physical & Mechanical Properties

25.40 +0.00/-0.13 **Diameter (mm):**

6.35 ±0.25 **Thickness (mm):**

Surface Roughness (□):

<3 RMS

Optical Properties

Metal/Semiconductor **Coating Type:**

Mb/Si Multilayer **Coating:**
Top Layer: Silicon

M10 @ 632.8nm **Surface Flatness (P-V):**

13.5 **Design Wavelength DWL (nm):**

250.00 **Effective Focal Length EFL (mm):**

Substrate:
[Fused Silica](#) (Corning 7980)

5 **Angle of Incidence (°):**

$R_{\text{abs}} > 60\%$ @ 13.5nm **Coating Specification:**

500.00 **Radius R_1 (mm):**

500.00 **Radius of Curvature (mm):**

0.50 **Full Width-Half Max FWHM (nm):**

Regulatory Compliance

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

Product Details

- Mo/Si Multilayer Coating on Super-Polished Substrates
- Maximum Achievable Reflection at 13.5nm
- Designed for EUV Beam Focusing Applications
- Narrow Pass Band for HHG Applications

Extreme Ultraviolet (EUV) Spherical Mirrors feature a multilayer Mo/Si coating providing greater than 60% reflection at 13.5nm. They are designed for a 5° angle of incidence and intended for focusing unpolarized EUV laser sources. A surface roughness of less than 3 \square RMS minimizes scatter. This is essential for EUV wavelengths which experience more scattering than longer wavelengths. EUV Spherical Mirrors have a very narrow pass band of approximately 0.5nm, ensuring that only the 13.5nm harmonic of interest is reflected in high harmonic generation (HHG) applications. [Typical applications](#) for EUV spherical mirrors include Coherent Diffractive Imaging (CDI), EUV imaging, and EUV nanomachining.

Note: Test data from each mirror's production run sample included.