

TECHSPEC® 800 - 1150nm, 50.8mm Dia., Ultrafast-Enhanced Silver Laser Mirror



Stock #17-266 **7 In Stock**

⊖ 1 ⊕ C\$333²⁰

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Volume Pricing	
Qty 1-5	C\$333.20 each
Qty 6+	C\$295.40 each
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General

Flat Mirror **Type:**

Physical & Mechanical Properties

<3 **Parallelism (arcmin):**

>80 **Clear Aperture (%):**

Commercial Polish **Back Surface:**

50.80 +0.00/-0.10 **Diameter (mm):**

9.53 ±0.20 **Thickness (mm):**

Optical Properties

10-5 **Surface Quality:**

Coating Specification:
 $R_{avg} >99\%$ @ 850 - 1150nm, 0°
 $R_s >99\%$ @ 800 - 1150nm, 45°
 $R_p >98.5\%$ @ ~850 - 1100nm, 45°

$0 \pm 30 \text{fs}^2$ @ 800 - 1150nm **GDD Specification:**

800 - 1150 **Wavelength Range (nm):**

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

Ultrafast-Enhanced Silver **Coating Type:**

Ultrafast-Enhanced Silver (800-1150nm) **Coating:**

Fused Silica (Corning 7980) **Substrate:**

Damage Threshold, Reference:
 0.35 J/cm^2 @ 1030nm, 200fs, 1 pulse (typical)
 0.10 J/cm^2 @ 1030nm, 200fs, 100Hz, 1000 pulses (typical)

Regulatory Compliance

Compliant **RoHS 2015:**

Compliant **Reach 223:**

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

Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

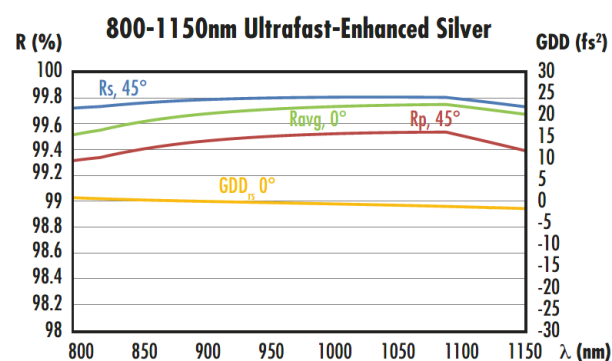
Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Product Details

- Reflectivity >99% at 600 – 1000nm or 800 – 1150nm
- Low Group Delay Dispersion as Low as $0 \pm 20 \text{fs}^2$
- Ideal for Ti:sapphire and Yb:doped Lasers
- Standard Imperial Sizes Available
- **TECHSPEC® Ultrafast-Enhanced Silver Concave Laser Mirrors** Available

TECHSPEC® Ultrafast-Enhanced Silver Laser Mirrors feature silver coatings that are enhanced with a dielectric coating to provide increased reflectivity at 600 – 1000nm or 800 – 1150nm. These mirrors have an intrinsically low group delay dispersion (GDD) within their broad wavelength range, making them ideal for the fundamental wavelength of Ti:sapphire lasers. TECHSPEC Ultrafast-Enhanced Silver Laser Mirrors are available with standard imperial sizes for easy integration into optical systems. For dielectric coated laser mirrors with low GDD at other ultrafast laser wavelengths, see our [Low GDD Ultrafast Mirrors](#).

Technical Information



800-1150nm Ultrafast-Enhanced Silver

Compatible Mounts
