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TECHSPEC<sup>®</sup>

600-1000nm, 25.4mm Dia. x 50mm EFL, Ultrafast-Enhanced Silver Concave Laser Mirror



TECHSPEC<sup>®</sup> Ultrafast-Enhanced Silver Concave Laser Mirrors

Stock **#13-063** **3 In Stock**

-

1

+

₹13,235

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| Volume Pricing |                               |
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| Qty 1-5        | ₹13,235 each                  |
| Qty 6-9        | ₹11,678 each                  |
| Qty 10+        | ₹10,432 each                  |
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General

Concave Mirror

Type:

Physical & Mechanical Properties

25.40 +0.00/-0.20

Diameter (mm):

Clear Aperture (%):

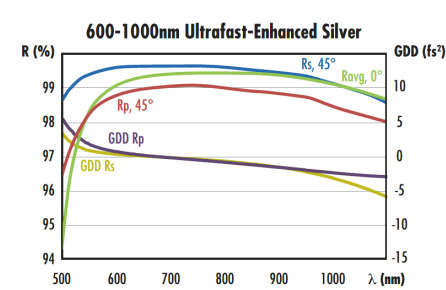
|                                                                                                                                 |                                                       |
|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| 80                                                                                                                              |                                                       |
| 6.35 ±0.10                                                                                                                      | Edge Thickness ET (mm):                               |
| Optical Properties                                                                                                              |                                                       |
| Fused Silica (Corning 7980)                                                                                                     | Substrate: <input type="checkbox"/>                   |
| 20-10                                                                                                                           | Surface Quality:                                      |
| 50.00                                                                                                                           | Effective Focal Length EFL (mm):                      |
| 100.00                                                                                                                          | Radius of Curvature (mm):                             |
| Ultrafast-Enhanced Silver (600-1000nm)                                                                                          | Coating:                                              |
| R <sub>avg</sub> >99% @ 600 - 1000nm, 0°<br>R <sub>s</sub> >99% @ 540 - 1000nm, 45°<br>R <sub>p</sub> >98.5% @ 730 - 870nm, 45° | Coating Specification:                                |
| 0 ±20fs <sup>2</sup> @ 600 - 1050nm                                                                                             | GDD Specification:                                    |
| Ultrafast-Enhanced Silver                                                                                                       | Coating Type:                                         |
| 600 - 1000                                                                                                                      | Wavelength Range (nm):                                |
| λ/10                                                                                                                            | Irregularity (P-V) @ 632.8nm:                         |
| 0.3 J/cm <sup>2</sup> @ 800nm, 48fs, 1 pulse (typical)<br>0.16 J/cm <sup>2</sup> @ 800nm, 48fs, 100Hz, 1000 pulses (typical)    | Damage Threshold, Reference: <input type="checkbox"/> |

|                                     |                             |
|-------------------------------------|-----------------------------|
| Regulatory Compliance               |                             |
| View                                | Certificate of Conformance: |
| United States                       | Country of Origin:          |
| Edmund Optics India Private Limited | Imported By:                |

## Product Details

- Ideal for Focusing Ti:sapphire and Yb:doped Laser Pulses
  - Reflectivity >99% at 600 – 1000nm or 800 – 1150nm
  - Low Group Delay Dispersion as Low as 0 ±20fs<sup>2</sup>
  - Effective Focal Lengths from 25 to 500mm
  - **TECHSPEC® Ultrafast-Enhanced Silver Laser Mirrors** Available
- TECHSPEC® Ultrafast-Enhanced Silver Concave 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) across their wavelength range, making them ideal for focusing or redirecting laser light from femtosecond lasers such as Ti:sapphire and Yb:doped lasers. Their broad wavelength range allows them to be used in applications that require a larger bandwidth than dielectric coated low GDD mirrors can provide. TECHSPEC® Ultrafast-Enhanced Silver Concave Laser Mirrors are available in standard imperial sizes and with effective focal lengths up to 500mm.
- Note:** TECHSPEC® Ultrafast-Enhanced Silver Concave Laser Mirrors can be designed with different wavelength ranges for other ultrafast laser types.

## Technical Information



600-1000nm Ultrafast-Enhanced Silver

## Custom

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](#).