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TECHSPEC® 50.8mm Dia. x 150mm EFL, 1064nm 0-45°, Concave Laser Line Mirror

Laser Line Concave Mirrors

Stock **#11-344** **6 In Stock**

- 1 + C$366.80

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Volume Pricing	
Qty 1-4	**C$366.80** each
Qty 5-9	**C$329.00** each
Qty 10+	**C$298.20** each
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Product Downloads

General

Type:
Concave Mirror

Physical & Mechanical Properties

Diameter (mm):
50.80 +0.00/-0.20

Back Surface:
Fine Grind

Center Thickness CT (mm):
8.92

Clear Aperture (%):
90

Edge Thickness ET (mm):
10.00 ±0.20

Optical Properties

Coating Type:
Dielectric

Coating:
Laser Mirror (1064nm)

Surface Flatness (P-V):
0.15λ

Wavelength Range (nm):
1046 - 1074

Design Wavelength DWL (nm):
1064

Effective Focal Length EFL (mm):
150.00

Substrate:
Fused Silica (Corning 7980)

Angle of Incidence (°):
0-45

Coating Specification:
R_{abs} >99.80% @ 1064nm (0-45° AOI)

Radius R_1 (mm):
300.00

Surface Quality:
20-10

Damage Threshold, Reference:
1 MW/cm^2 @ 1064nm

Irregularity (P-V) @ 632.8nm:
3λ/20

Radius of Curvature (mm):
300.00

Regulatory Compliance

Certificate of Conformance:
View

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

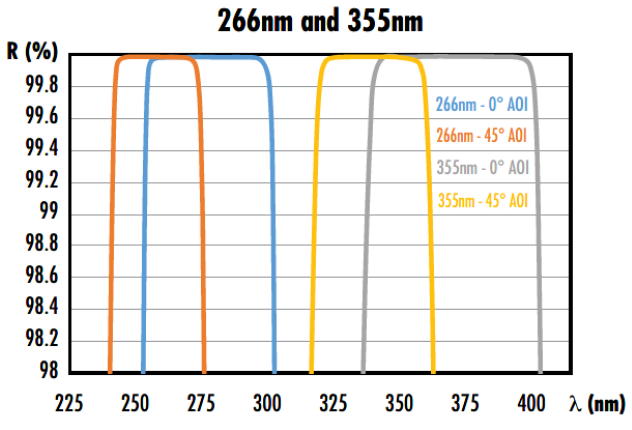
Learn more about our custom manufacturing capabilities or submit an inquiry here.

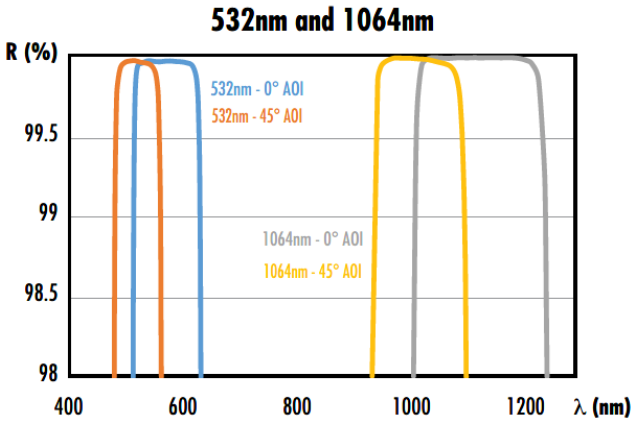
Product Details

- Ideal for Focusing Laser Light
- >99.8% Reflectivity at Center Wavelength
- High Thermal Stability Fused Silica Substrates

TECHSPEC® Concave Laser Line Mirrors offer high precision 20-10 surface quality, λ/10 surface irregularity, and high reflectivity for focusing laser beams generated by Nd:YAG sources. Featuring high guaranteed laser induced damage thresholds, these dielectric coated laser mirrors are durable and resistant to laser damage. These concave mirrors are ideal for use with a 0-45° angle of incidence, providing flexibility for system integration into beam focusing, collecting, and imaging applications. TECHSPEC Concave Laser Line Mirrors feature fused silica substrates with excellent thermal and temporal stability, ensuring optimal performance regardless of temperature fluctuations. 266nm, 355nm, 532nm, and 1064nm laser line dielectric coatings are available.

Technical Information


266nm and 355nm
R (%)
99.8
99.6
99.4
99.2
99
98.8
98.6
98.4
98.2
98
225
250
275
300
325
350
375
400
λ (nm)
266nm - 0° AOI
266nm - 45° AOI
355nm - 0° AOI
355nm - 45° AOI


532nm and 1064nm
R (%)
99.5
99
98.5
98
400
600
800
1000
1200
λ (nm)
532nm - 0° AOI
532nm - 45° AOI
1064nm - 0° AOI
1064nm - 45° AOI

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