

TECHSPEC[®] Elliptical Mirror 47.63mm Minor Axis Protected Silver



Stock #89-459 1 In Stock

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1

+

₹16,271

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Volume Pricing	
Qty 1-5	₹16,271 each
Qty 6-25	₹13,001 each
Qty 26-49	₹12,184 each
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Product Downloads

General	
Flat Mirror	Type:
Flatness specification is Peak to Valley	Note:

Physical & Mechanical Properties	
±0.040	Thickness Tolerance (inches):

11.68 ±1.02	Thickness (mm):
42.88 (Minor Axis) 60.63 (Major Axis)	Clear Aperture CA (mm):
±0.015	Dimensional Tolerance (inches):
±0.38	Dimensional Tolerance (mm):
67.36	Major Axis (mm):
47.63	Minor Axis (mm):

Optical Properties	
0.45 - 10	Wavelength Range (µm):
Metal	Coating Type:
Protected Silver (450-10000nm)	Coating:
λ/8	Surface Flatness (P-V):
450 - 10000	Wavelength Range (nm):
BOROFLOAT®	Substrate: □
R _{avg} >98% @450 - 800nm R _{avg} >98.5% @2000 - 10,000nm	Coating Specification:
60-40	Surface Quality:
0.5 J/cm² @ 532nm & 1064nm, 10ns	Damage Threshold, Reference: □

Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:
United States	Country of Origin:
Edmund Optics India Private Limited	Imported By:

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

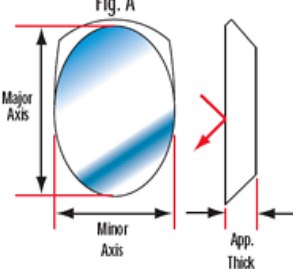
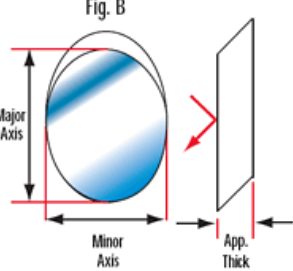
See Figure A in Technical Information tab for dimensional diagram.

- Circular Profile When Oriented at 45°
- Ideal for Redirecting Light
- Multiple Sizes and Coatings Offered

TECHSPEC® λ/8 Precision Elliptical Flat Mirrors are ideal for research and astronomical applications. Because of their elongated major axis, they are suited to bending and folding light at precise angles with minimum wavefront distortion. These mirrors have a circular profile when they are oriented at 45°. TECHSPEC® λ/8 Precision Elliptical Flat Mirrors feature a BOROFLOAT® substrate. Multiple sizes and coating options are offered to best suit a wide range of applications.

Technical Information



Fig.	Minor Axis (mm)	Major Axis (mm)	Thickness (mm)	Stock No.					
				Uncoated	Protected Aluminum	UV Enhanced Aluminum	Enhanced Aluminum	Protected Gold	Protected Silver
B	12.70	17.96	3.81	#32-270	#32-271	#43-573	#32-272	#32-273	#89-454
B	22.23	31.42	6.35	#32-093	#30-836	#43-574	#32-131	#32-085	#89-455
B	26.97	38.15	6.35	#32-094	#30-837	#43-575	#32-132	#32-086	#89-456
A	31.75	44.91	9.53	#32-095	#30-205	#43-576	#32-133	#32-087	#89-457
A	38.10	53.87	9.53	#32-096	#30-258	#43-577	#32-134	#32-088	#89-458
A	47.63	67.36	11.68	#32-097	#30-840	#43-578	#32-135	#32-089	#89-459
B	57.15	80.82	15.88	#32-098	#41-131	#43-579	#32-136	#32-090	#89-460
B	66.68	94.28	15.88	#32-099	#42-583	#43-580	#32-137	#32-091	#89-461
B	76.20	107.77	19.05	#32-100	#42-584	#43-581	#32-138	#32-092	#89-462
Fig. A  Fig. B 									

Coating Curves