

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



Stock **#89-459** 4 In Stock

-

1

+

S\$319^{.20}

ADD TO CART

Volume Pricing	
Qty 1-5	S\$319.20 each
Qty 6-25	S\$254.80 each
Qty 26-49	S\$239.40 each
Need More?	Request Quote

Product Downloads

SPECIFICATIONS

General

Flatness specification is Peak to Valley

Note:

Flat Mirror

Type:

Physical & Mechanical Properties	
47.63	Minor Axis (mm):
67.36	Major Axis (mm):
±0.38	Dimensional Tolerance (mm):
±0.015	Dimensional Tolerance (inches):
42.88 (Minor Axis) 60.63 (Major Axis)	Clear Aperture CA (mm):
11.68 ±1.02	Thickness (mm):
±0.040	Thickness Tolerance (inches):

Optical Properties	
λ/8	Surface Flatness (P-V):
	Substrate: 
60-40	Surface Quality:
R _{avg} >98% @ 450 - 800nm R _{avg} >98.5% @ 2000 - 10,000nm	Coating Specification:
Protected Silver (450-10000nm)	Coating:
Metal	Coating Type:
0.45 - 10	Wavelength Range (μm):
450 - 10000	Wavelength Range (nm):
0.5 J/cm ² @ 532nm & 1064nm, 10ns	Damage Threshold, Reference: 

Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

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

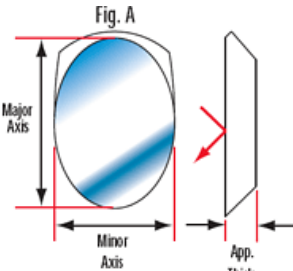
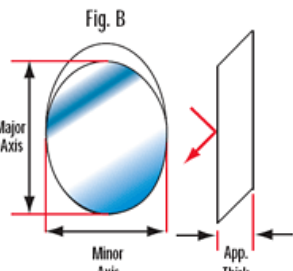


Fig. B



COATING CURVES

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](#).