

TECHSPEC®

Elliptical Mirror 31.75mm Minor Axis Protected Aluminum



Stock #30-205

CONTACT US

-

1

+

₹9,108

ADD TO CART

Volume Pricing	
Qty 1-5	₹9,108 each
Qty 6-25	₹7,279 each
Qty 26-49	₹6,773 each
Need More?	Request Quote

Product Downloads

General

Flatness specification is Peak to Valley

Note:

Flat Mirror

Type:

Physical & Mechanical Properties

31.75

Minor Axis (mm):

44.91	Major Axis (mm):
±0.38	Dimensional Tolerance (mm):
±0.015	Dimensional Tolerance (inches):
28.56 (Minor Axis) 40.41 (Major Axis)	Clear Aperture CA (mm):
9.53 ±0.76	Thickness (mm):
±0.030	Thickness Tolerance (inches):

Optical Properties

λ/8	Surface Flatness (P-V):
BOROFLOAT®	Substrate: ☐
60-40	Surface Quality:
R _{avg} >85% @400 - 700nm R _{avg} >90% @400 - 2000nm	Coating Specification:
Protected Aluminum (400-2000nm)	Coating:
Metal	Coating Type:
0.4 - 2	Wavelength Range (μm):
400 - 2000	Wavelength Range (nm):
0.3 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:

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

The diagrams illustrate the geometry of the lenses. Fig. A shows a lens with a major axis of 57.15, a minor axis of 80.82, and an application thickness of 15.88. Fig. B shows a lens with a major axis of 66.68, a minor axis of 94.28, and an application thickness of 15.88. The lenses are shown in cross-section, with the major axis vertical and the minor axis horizontal. The application thickness is indicated by a red arrow pointing to the right.