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TECHSPEC®

Elliptical Mirror 12.7mm Minor Axis Protected Silver



Stock **#89-454** 5 In Stock

-

1

+

£83<sup>.20</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | £83.20 each                   |
| Qty 6-25       | £66.40 each                   |
| Qty 26-49      | £62.00 each                   |
| Need More?     | <a href="#">Request Quote</a> |

! Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Flat Mirror

Type:

Flatness specification is Peak to Valley

Note:

Physical & Mechanical Properties

±0.020

Thickness Tolerance (inches):

|                                          |                                 |
|------------------------------------------|---------------------------------|
| 3.81 ±0.51                               | Thickness (mm):                 |
| 11.43 (Minor Axis)<br>16.15 (Major Axis) | Clear Aperture CA (mm):         |
| ±0.015                                   | Dimensional Tolerance (inches): |
| ±0.38                                    | Dimensional Tolerance (mm):     |
| 17.96                                    | Major Axis (mm):                |
| 12.70                                    | 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 <sub>avg</sub> >98% @450 - 800nm<br>R <sub>avg</sub> >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:                  |

## 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 B in Technical Information tab for dimensional diagram.

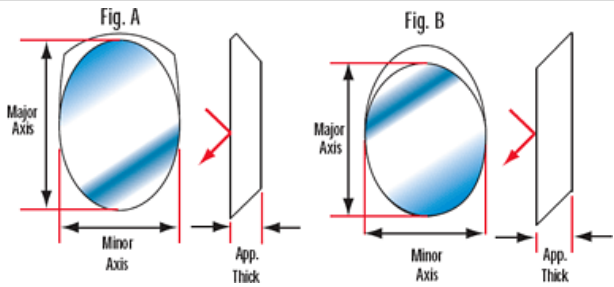
- Circular Profile When Oriented at 45°
- Ideal for Redirecting Light
- Multiple Sizes and Coatings Offered

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 |



Coating Curves