

TECHSPEC<sup>®</sup> 31.75mm Sq., 2.5X, Protected Aluminum Off-Axis Ellipsoidal Mirror



Protected Aluminum Off-Axis Ellipsoidal Mirror

Stock ~~#12-497~~ **2 In Stock**

-

1

+

₹23,044

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | ₹23,044 each                  |
| Qty 6-25       | ₹20,786 each                  |
| Qty 26-50      | ₹18,450 each                  |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

General

Type:

Off-Axis Ellipsoidal Mirror

Physical & Mechanical Properties

Surface Roughness (□):

<100 RMS

Dimensions (mm):

31.75 x31.75

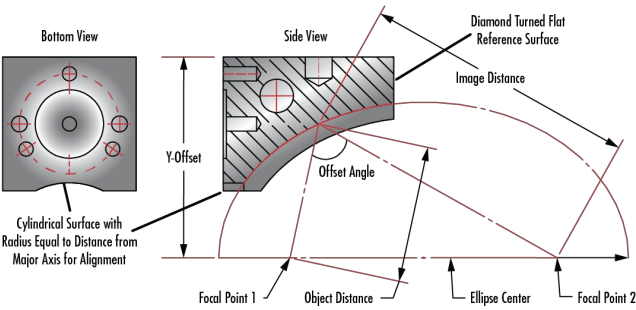
|                                                                           |                             |
|---------------------------------------------------------------------------|-----------------------------|
| 49.38                                                                     | Y Offset (mm):              |
| 83.82                                                                     | Image Distance (mm):        |
| Optical Properties                                                        |                             |
| 2.5X                                                                      | Magnification:              |
| Aluminum 6061-T6                                                          | Substrate:                  |
| 60-40                                                                     | Surface Quality:            |
| Protected Aluminum (400-2000nm)                                           | Coating:                    |
| R <sub>avg</sub> >85% @400 - 700nm<br>R <sub>avg</sub> >90% @400 - 2000nm | Coating Specification:      |
| Metal                                                                     | Coating Type:               |
| 65.44                                                                     | Off-Set Angle (°):          |
| 400 - 2000                                                                | Wavelength Range (nm):      |
| 33.02                                                                     | Object Distance (mm):       |
| Regulatory Compliance                                                     |                             |
| View                                                                      | Certificate of Conformance: |
| United States                                                             | Country of Origin:          |
| Edmund Optics India Private Limited                                       | Imported By:                |

## Product Details

- <100Å Surface Roughness for Low Scatter
- Diamond Turned Alignment Surfaces
- Ideal for Finite Conjugate Reflection

TECHSPEC® Off-Axis Ellipsoidal Mirrors are finite conjugate focusing mirrors used to image at a set angle. These mirrors feature fixed conjugate image and object path lengths, providing up to 2.5X magnification from the object plane to the imaging plane. Off-Axis Ellipsoidal Mirrors are commonly found in Fourier-transform infrared spectroscopy (FTIR) systems where broadband light sources require the use of metallic reflectors with an off-axis design to meet space constraints. TECHSPEC Off-Axis Ellipsoidal Mirrors feature a diamond turned cylindrical surface on their base, with a radius equivalent to the distance to the major axis of the ellipse, for aligning the mirror to the major axis as well as a diamond turned flat reference surface that is perpendicular to the major axis. Please contact us if your application requires an Off-Axis Ellipsoidal Mirror with custom specifications.

## Technical Information



## 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](#).