

TECHSPEC® 50.8 x 76.2mm EFL 90° Protected Gold 100Å Off-Axis Parabolic Mirror



Stock #35-509 2 In Stock

Other Coating Options

-

1

+

₹40,093

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | ₹40,093 each                  |
| Qty 6-25       | ₹36,122 each                  |
| Qty 26-50      | ₹32,074 each                  |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

| General                          |                |
|----------------------------------|----------------|
| Off-Axis Parabolic Mirror        | Type:          |
| Physical & Mechanical Properties |                |
| 76.2                             | Y Offset (mm): |
| 50.80 +0.00/-0.38                | Diameter (mm): |

|                                                                                                                          |                                  |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 90                                                                                                                       | Clear Aperture (%):              |
| <100 RMS                                                                                                                 | Surface Roughness (□):           |
| Optical Properties                                                                                                       |                                  |
| Metal                                                                                                                    | Coating Type:                    |
| Protected Gold (700-10000nm)                                                                                             | Coating:                         |
| 90                                                                                                                       | Off-Set Angle (°):               |
| 700 - 10000                                                                                                              | Wavelength Range (nm):           |
| 76.20                                                                                                                    | Effective Focal Length EFL (mm): |
| Aluminum 6061-T6                                                                                                         | Substrate: □                     |
| R <sub>avg</sub> ≥94% @ 700 - 800nm<br>R <sub>avg</sub> ≥97% @ 800 - 2,000nm<br>R <sub>avg</sub> ≥98% @ 2,000 - 12,000nm | Coating Specification:           |
| ±1                                                                                                                       | Focal Length Tolerance (%):      |
| 38.1                                                                                                                     | Parent Focal Length PFL (mm):    |
| λ/2                                                                                                                      | Surface Figure, RMS:             |
| 80-50                                                                                                                    | Surface Quality:                 |
| 76.20                                                                                                                    | Radius of Curvature (mm):        |
| 1λ                                                                                                                       | Reflected Wavefront, RMS:        |
| Threading & Mounting                                                                                                     |                                  |
| #47-112                                                                                                                  | Compatible Mounting Plates:      |
| 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

- Bare or Protected Gold Coating for NIR and IR Applications
- 50Åand 100ÅSurface Roughness Options
- 15°, 30°, 45°, 60°, or 90° Offset Angles
- Aluminum and Silver Coated Mirrors Also Available

TECHSPEC® Gold Off-Axis Parabolic Mirrors (OAPs) are designed for minimal scatter loss in light focusing applications. Available with bare or protected gold coatings, these OAP mirrors offer excellent reflectivity from the near infrared (NIR) to the far infrared (IR). Multiple surface roughness options are available in offset angles from 15 to 90°, providing flexibility for system designs. TECHSPEC® Gold Off-Axis Parabolic Mirrors are commonly used in IR systems such as FLIR and FTIR, as well as IR lasers including quantum cascade lasers (QCLs). Mounting plates with holes perpendicular to the optical axis for post mounting are also available.

## Technical Information

