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TECHSPEC[®] 12.7 x 50.8mm EFL 90° Protected Aluminum 100Å Off-Axis Parabolic Mirror



Stock **#35-483** **6 In Stock**

☐ [Other Coating Options](#)

-

1

+

£159⁻²⁰

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Volume Pricing	
Qty 1-5	£159.20 each
Qty 6-10	£143.20 each
Qty 11-25	£136.00 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Off-Axis Parabolic MirrorType:

Physical & Mechanical Properties

12.70 +0.00/-0.38Diameter (mm):

<100 RMS	Surface Roughness (□):
90	Clear Aperture (%):
50.8	Y Offset (mm):

Optical Properties	
50.80	Effective Focal Length EFL (mm):
±1	Focal Length Tolerance (%):
50.80	Radius of Curvature (mm):
Protected Aluminum (400-2000nm)	Coating:
Metal	Coating Type:
R _{avg} ≥85% @400 - 700nm R _{avg} ≥97% @2,000 - 12,000nm	Coating Specification:
90	Off-Set Angle (°):
25.4	Parent Focal Length PFL (mm):
λ/4	Surface Figure, RMS:
400 - 2000	Wavelength Range (nm):
80-50	Surface Quality:
Aluminum 6061-T6	Substrate:
λ/2	Reflected Wavefront, RMS:

Threading & Mounting	
#34-425	Compatible Mounting Plates:

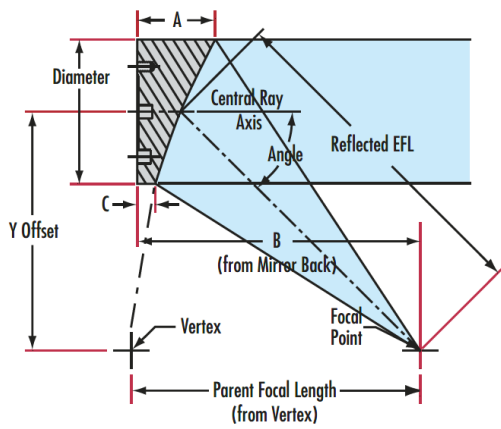
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

Product Details

- Aluminum Coatings for UV, Visible, and NIR Applications
- Range of Surface Roughness, Including 50Å and 100Å
- 15°, 30°, 45°, 60°, or 90° Offset Angle Options
- Gold and Silver Coated Off-Axis Parabolic Mirrors Also Available

TECHSPEC® Aluminum Off-Axis Parabolic Mirrors (OAPs) are a cost-effective solution for focusing incident light with minimal scatter loss. Available with enhanced or protected aluminum coatings, these OAP mirrors offer high reflectivity from the ultraviolet (UV) to the near infrared (NIR). These Aluminum OAPs are manufactured with multiple surface roughness specifications, offering designers the choice between high performance, low scatter mirrors and more cost sensitive options. TECHSPEC® Aluminum Off-Axis Parabolic Mirrors are used in optical systems such as Schlieren and spectroscopy systems, as well as in laser systems to focus laser beams. For increased system integration flexibility, mounting plates that thread to the base of these off-axis parabolic mirrors are available.

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](#).