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50mm Dia x -45.2mm FL Protected Gold Coated, Convex Mirror



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-1+

₹4,943

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General

Spherical Mirror

Type:

Physical & Mechanical Properties

50.00 +0.00/-0.10

Diameter (mm):

9.00

Center Thickness CT (mm):

90	Clear Aperture (%):
5.48	Edge Thickness ET (mm):
90.44	Radius R (mm):
Optical Properties	
-45.20	Focal Length FL (mm):
Protected Gold (700-10000nm)	Coating:
R _{avg} >96% @ 700 - 2000nm R _{avg} >96% @2000 - 10,000nm	Coating Specification:
Metal	Coating Type:
±2	Focal Length Tolerance (%):
N-BK7	Substrate: ☐
60-40	Surface Quality:
700 - 10000	Wavelength Range (nm):
0.8 J/cm ² @ 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

- Variety of Diameters and Focal Lengths Available
- Enhanced Aluminum and Protected Gold Coatings
- Ideal for Imaging Systems

Convex Spherical Mirrors feature a polished plano second surface and convex first surface. Used primarily for increasing an imaging system's field of view, convex mirrors create a virtual, upright image. Shorter focal lengths provide wider fields of view, while longer focal lengths provide less distortion. Convex Spherical Mirrors with Enhanced Aluminum coatings are ideal for applications in the visible spectrum, while Protected Gold provides excellent reflection throughout the NIR, MWIR, and LWIR spectra. The mirrors are offered in 12, 25, and 50mm diameters, in a variety of wavelength ranges.