

CHAPTERS

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Spectral Filters

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Windows

Diffusers

# Off-Axis Parabolic Mirrors

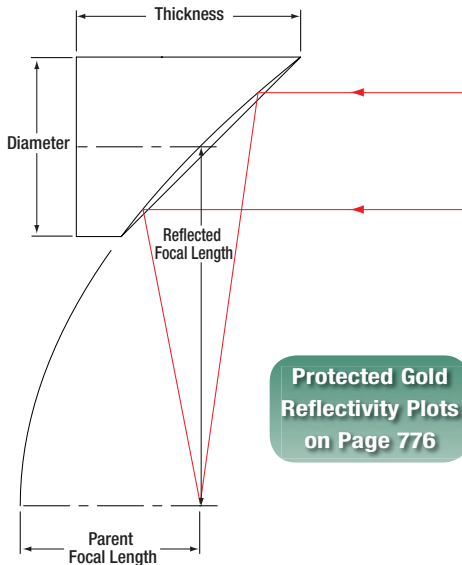
- 90° Off-Axis Parabolic Mirrors with Aluminum Substrates
- Diamond-Turned Designs
- Protected Gold Coating for >95% Average Reflectance from 800 nm to 20 μm
- Excellent for Collimating a Point Source or Focusing a Collimated Beam

- Clear Aperture: >90% of Diameter
- Surface Roughness: <100 Angstroms RMS
- Surface Irregularity: λ/4 @ 633 nm
- Surface Quality: 40-20 Scratch-Dig
- Bottom-Located Mounting Holes
  - Three 4-40 Taps (Ø1/2" and Ø1" Versions)
  - Three 8-32 Taps (Ø2" Versions)

**NEW** products



MPD254254-90-M01  
Ø1" Parabolic Mirror

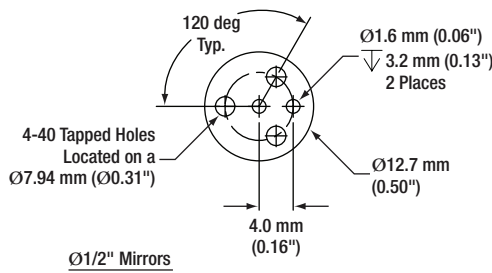


Protected Gold Reflectivity Plots on Page 776

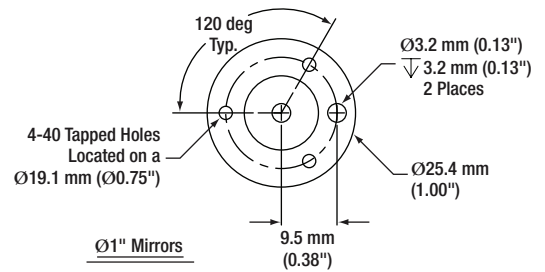
Mechanical  
Drawings Available on the  
**WEB**

Thorlabs' off-axis parabolic (OAP) mirrors are diamond-turned, first-surface mirrors that have been cut out of a parent parabolic mirror. By segmenting a full parabolic mirror, the resulting off-axis angled mirrors allow users to achromatically focus a collimated beam or collimate a point source as in our reflective collimators (see page 1105). The angle at which the mirror focuses or collimates in relation to the incident beam is the off-axis angle. We offer 90° off-axis parabolic mirrors, meaning that the incident beam is at a right angle to the reflected beam as shown in the schematic to the left. Each mirror has an aluminum substrate with the part number engraved on it.

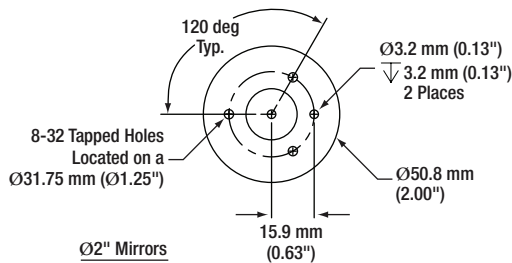
The bottom of each off-axis parabolic mirror features three mounting holes and an alignment hole, which are useful for mounting in OEM applications.



Ø1/2" Mirrors



Ø1" Mirrors



Ø2" Mirrors



POLARIS-K1 Mirror Mount (See Pages 244 - 246) with a Ø1" Parabolic Mirror

KS2 Mirror Mount (See Page 247) with a Ø2" Parabolic Mirror

Have you seen our...

High-Power White Light Source



See page 1365

ITEM #	D <sup>a</sup>	T <sup>b</sup>	PFL <sup>c</sup>	RFL <sup>d</sup>	\$	£	€	RMB
MPD127127-90-M01	1/2"	18.8 mm	12.7 mm	25.4 mm	\$ 235.00	£ 169.20	€ 204,45	¥ 1,872.95
MPD127254-90-M01	1/2"	18.8 mm	25.4 mm	50.8 mm	\$ 235.00	£ 169.20	€ 204,45	¥ 1,872.95
MPD254254-90-M01	1"	31.7 mm	25.4 mm	50.8 mm	\$ 250.00	£ 180.00	€ 217,50	¥ 1,992.50
MPD254508-90-M01	1"	31.8 mm	50.8 mm	101.6 mm	\$ 250.00	£ 180.00	€ 217,50	¥ 1,992.50
MPD254762-90-M01	1"	31.7 mm	76.2 mm	152.4 mm	\$ 250.00	£ 180.00	€ 217,50	¥ 1,992.50
MPD508508-90-M01	2"	62.8 mm	50.8 mm	101.6 mm	\$ 320.00	£ 230.40	€ 278,40	¥ 2,550.40
MPD508762-90-M01	2"	62.8 mm	76.2 mm	152.4 mm	\$ 320.00	£ 230.40	€ 278,40	¥ 2,550.40

<sup>a</sup>Diameter <sup>b</sup>Thickness <sup>c</sup>Parent Focal Length <sup>d</sup>Reflected Focal Length