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1064nm, 4-6mm Dia. Input Beam, Focal Flat Top Beam Shaper | Focal πShaper_1064_Q-5

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Focal Flat Top Beam Shaper



Stock #12-231 **1 In Stock**

⊖ 1 ⊕ €2.830⁰⁰

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Volume Pricing	
Qty 1-4	€2.830,00 each
Qty 5-10	€2.545,00 each
Qty 11+	€2.410,00 each
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Product Downloads

General

Model Number:
πShaper_1064_Q-5

Type:
Beam Shaper

#12-322

Compatible Adapter:

Physical & Mechanical Properties

Length (mm):

29.00

Weight (g):

50

Clear Aperture CA (mm):

20

Diameter (mm):

42.00

Input Beam Diameter, $1/e^2$ (mm):

4 - 6

Optical Properties

Transmission (%):

>99

Design Wavelength DWL (nm):

1064

Wavelength Range (nm):

1020 - 1100

Input Beam Mode:

TEM₀₀

Typical Input Beam Mode Quality, M^2 :

<1.5

Input Beam Divergence (mrad):

±20

Electrical

Maximum Input Power, CW (kW):

0.2

Threading & Mounting

Inner Thread:

M30 x 0.75

Outer Thread:

M30 x 0.75

Regulatory Compliance

RoHS 2015:

[Compliant](#)

Certificate of Conformance:

[View](#)

Reach 250:

[Compliant](#)

Product Details

- Shapes Gaussian Beams to Airy Disk Profile
- Airy Disk is Focusable to Flat Top Spot
- Near 100% Efficiency
- [AdlOptica πShaper Flat Top Beam Shapers](#) Also Available

AdlOptica Focal-πShaper (piShaper) Q Flat Top Beam Shapers are used to transform Gaussian beams to flat-top profiles after focusing through a lens. This is accomplished by transforming the Gaussian beam to airy disk profiles immediately after the piShaper. These beam shapers feature a compact design with inner and outer threading, making them easy to integrate into equipment. AdlOptica Focal-πShapers are advantageous for beam shaping in micromachining applications, including scribing and PCB drilling, as well as micro-welding applications. Multiple models are available at Nd:YAG, Ti:Sapphire, and Infrared wavelengths with compatible input beam diameters as small as 2.5mm and up to 23mm.

Technical Information

