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# 1064nm, 6-9mm Dia. Input Beam, Focal Flat Top Beam Shaper | Focal πShaper_1064_Q-7.5

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Focal Flat Top Beam Shaper

Stock **#12-232** **1 In Stock**

- 1 + **£2,528**.00

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| Qty 1-4 | **£2,528.00** each |
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## Product Downloads

## General

**Model Number:**
πShaper_1064_Q-7.5

**Type:**
Beam Shaper

| | |
|---|---|
| **Compatible Adapter:** | |
| #12-322 | |

## 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):** | |
| 6 - 9 | |

## Optical Properties

| | |
|---|---|
| **Transmission (%):** | |
| >99 | |
| **Design Wavelength DWL (nm):** | |
| 1064 | |
| **Wavelength Range (nm):** | |
| 1020 - 1100 | |
| **Input Beam Mode:** | |
| $TEM_{00}$ | |
| **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

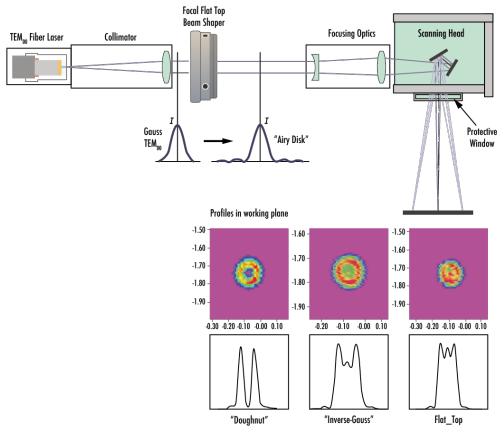
| | |
|---|---|
| **RoHS 2015:** | |
| Compliant | |
| **Certificate of Conformance:** | |
| View | |
| **Reach 250:** | |
| Compliant | |

# 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


Focal Flat Top
Beam Shaper
TEM00 Fiber Laser
Collimator
Focusing Optics
Scanning Head
I
Gauss
TEM00
I
"Airy Disk"
Protective
Window
Profiles in working plane
-1.50
-1.60
-1.70
-1.80
-1.90
-0.30 -0.20 -0.10 -0.00 0.10
-1.60
-1.70
-1.80
-1.90
-0.20 -0.10 -0.00 0.10
-1.50
-1.60
-1.70
-1.80
-1.90
-0.30 -0.20 -0.10 -0.00 0.10
"Doughnut"
"Inverse-Gauss"
Flat_Top

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