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# 750 - 900nm (Ti:Sapphire), 4-6mm Dia. Input Beam, Focal Flat Top Beam Shaper | Focal- $\pi$ Shaper\_TiS\_Q-5

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Stock #25-849 **1 In Stock**

⊖ 1 ⊕ €2.830<sup>00</sup>

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## Product Downloads

### General

Focal- $\pi$ Shaper\_TiS\_Q-5 **Model Number:**

Beam Shaper **Type:**

#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):

2.5 - 4

## Optical Properties

Transmission (%):

>99

Design Wavelength DWL (nm):

750, 900

Wavelength Range (nm):

750 - 900

Input Beam Mode:

TEM<sub>00</sub>

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

