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# 1550nm & 2μm (1500 - 2100nm), 8-12mm Dia. Input Beam, Focal Flat Top Beam Shaper | Focal-πShaper\_NIR\_Q-10

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Stock #25-854 [CONTACT US](#)

⊖ 1 ⊕ €3.130<sup>00</sup>

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## Product Downloads

### General

Focal-πShaper\_NIR\_Q-10 **Model Number:**

Beam Shaper **Type:**

#12-322

Compatible Adapter:

## Physical & Mechanical Properties

29.00 Length (mm):

50 Weight (g):

20 Clear Aperture CA (mm):

42.00 Diameter (mm):

8 - 12 Input Beam Diameter,  $1/e^2$  (mm):

## Optical Properties

>99 Transmission (%):

1550, 2000 Design Wavelength DWL (nm):

1550 - 2000 Wavelength Range (nm):

TEM<sub>00</sub> Input Beam Mode:

<1.5 Typical Input Beam Mode Quality,  $M^2$ :

±20 Input Beam Divergence (mrad):

## Electrical

0.2 Maximum Input Power, CW (kW):

## Threading & Mounting

M30 x 0.75 Inner Thread:

M30 x 0.75 Outer Thread:

## Regulatory Compliance

[Compliant](#) RoHS 2015:

[View](#) Certificate of Conformance:

[Compliant](#) Reach 250:

## Product Details

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

AdlOptica Focal- $\pi$ Shaper (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- $\pi$ Shapers 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

