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# 1070nm, 8-12mm Dia. Input Beam, HP Sapphire Focal Flat Top Beam Shaper | Focal $\pi$ Shaper\_1070\_Q-10\_HP

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Stock #17-593 **2 In Stock**

- 1 + C\$6,608<sup>00</sup>

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## Product Downloads

### General

$\pi$ Shaper\_1070\_Q-10\_HP **Model Number:**

Beam Shaper (Sapphire) **Type:**

#12-322

Compatible Adapter:

### Physical & Mechanical Properties

29.00 Length (mm):

50 Weight (g):

10 Clear Aperture CA (mm):

42.00 Diameter (mm):

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

### Optical Properties

>99 Transmission (%):

1070 Design Wavelength DWL (nm):

1020 - 1100 Wavelength Range (nm):

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

<1.5 Typical Input Beam Mode Quality, M<sup>2</sup>:

±20 Input Beam Divergence (mrad):

### Electrical

3 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 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

