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# 1070nm, 18-23mm Dia. Input Beam, HP Sapphire Focal Flat Top Beam Shaper | Focal $\pi$ Shaper\_1070\_Q-20\_HP

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Stock #17-594 [CONTACT US](#)

- 1 + £3,492<sup>00</sup>

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Qty 1-4	£3,492.00 each
Qty 5-10	£3,140.00 each
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## Product Downloads

## General

Model Number:

$\pi$ Shaper\_1070\_Q-20\_HP

Beam Shaper (Sapphire) **Type:**

**Compatible Adapter:**  
[#12-322](#)

## Physical & Mechanical Properties

**Length (mm):**  
21.00

**Weight (g):**  
70

**Clear Aperture CA (mm):**  
38

**Diameter (mm):**  
64.00

**Input Beam Diameter,  $1/e^2$  (mm):**  
18 - 23

## Optical Properties

**Transmission (%):**  
>99

**Design Wavelength DWL (nm):**  
1070

**Wavelength Range (nm):**  
1020 - 1100

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

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

**Input Beam Divergence (mrad):**  
±20

## Electrical

**Maximum Input Power, CW (kW):**  
5

## Threading & Mounting

**Inner Thread:**  
M58 x 1

**Outer Thread:**  
M58 x 1

## 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

