

1070nm, 18-23mm Dia. Input Beam, HP Sapphire Focal Flat Top Beam Shaper | Focal π Shaper_1070_Q-20_HP

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C\$6,790⁰⁰

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General

π Shaper_1070_Q-20_HP **Model Number:**

Beam Shaper (Sapphire) **Type:**

#12-322

Compatible Adapter:

Physical & Mechanical Properties

21.00 Length (mm):

70 Weight (g):

38 Clear Aperture CA (mm):

64.00 Diameter (mm):

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

Optical Properties

>99 Transmission (%):

1070 Design Wavelength DWL (nm):

1020 - 1100 Wavelength Range (nm):

TEM₀₀ Input Beam Mode:

<1.5 Typical Input Beam Mode Quality, M²:

±20 Input Beam Divergence (mrad):

Electrical

5 Maximum Input Power, CW (kW):

Threading & Mounting

M58 x 1 Inner Thread:

M58 x 1 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

