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

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+

A\$6,984⁰⁰

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General

π Shaper_1070_Q-20_HP

Model Number:

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 ₀₀	
Typical Input Beam Mode Quality, M ² :	
<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

