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10600nm, 8-12mm Dia. Input Beam, Focal Flat Top Beam Shaper | Focal πShaper_CO2_Q-10

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Stock #17-592 **1 In Stock**

⊖ 1 ⊕ £3,716⁰⁰

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Product Downloads

General

Model Number:
πShaper_CO2_Q-10

Beam Shaper (ZnSe) **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/e² (mm):**

Optical Properties

>99 **Transmission (%):**

10600 **Design Wavelength DWL (nm):**

9000 - 11000 **Wavelength Range (nm):**

TEM₀₀ **Input Beam Mode:**

<1.5 **Typical Input Beam Mode Quality, M²:**

±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 piShaper Flat Top Beam Shapers](#) Also Available

AdlOptica Focal-piShaper (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-piShapers 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

