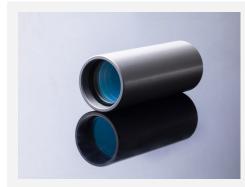


Compact Beam Shaper IOS000336 - TopHat of 2.0 x 2.0 mm²



Features and Advantages

This compact beam shaper is designed for a fiber coupled diode laser to generate a homogeneous field of 2 x 2 mm² in a working distance of approximately 100 mm.

Product Specifications

| Specification Data of the Laser Source (input) | Unit | Value |
|--|------|---|
| Wavelength | nm | 790-990 |
| Power | W | ≤ 120 |
| Fiber core diameter | μm | 400 |
| NA | | 0.22 |
| Fiber connector | | SMA905 |
| Specification Data of the Beam Shaper Module $^{(1)}$ | Unit | Value |
| Transmission | % | > 95 |
| Efficiency (I _{field,hom} / I _{field,total}) ⁽²⁾ | % | > 60 |
| Generated field size | mm² | $2 \times 2 \pm 0.5$ (top hat region) |
| Inhomogeneity (Imax-Imin)/(Imax+Imin) ⁽³⁾ | % | \leq 7.5 (integrated over the other axis) |
| Working distance WD ⁽⁴⁾ | mm | 95 ± 5 |
| Housing material | | anodized aluminium |
| Dimensions of the housing | mm | see drawing |

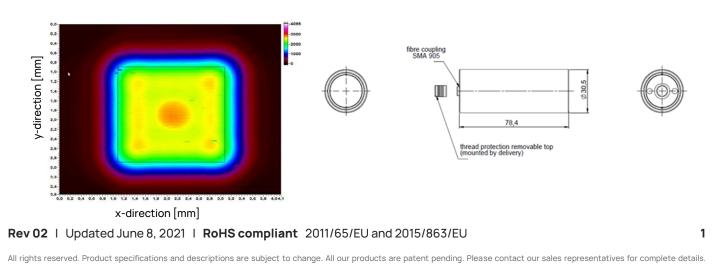
(1) Example for customization $-\,$ customized field sizes and coatings on request

(2) Irield.hom / Irield.total denotes the ratio of the integrated power in the homogeneous field versus the total power at the field plane

(3) Imax and Imin denote the maximum and minimum intensity in the uniform field, respectively.

(4) Between last mechanical surface and focus

Typical Measured Field and Product Drawing (mm)



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