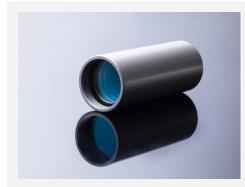


## **Compact Beam Shaper** IOS000336 - TopHat of 2.0 x 2.0 mm<sup>2</sup>



## **Features and Advantages**

This compact beam shaper is designed for a fiber coupled diode laser to generate a homogeneous field of 2 x 2 mm<sup>2</sup> 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 <sub>field,hom</sub> / I <sub>field,total</sub> ) <sup>(2)</sup>	%	> 60
Generated field size	mm²	$2 \times 2 \pm 0.5$ (top hat region)
Inhomogeneity (Imax-Imin)/(Imax+Imin) <sup>(3)</sup>	%	$\leq$ 7.5 (integrated over the other axis)
Working distance WD <sup>(4)</sup>	mm	95 ± 5
Housing material		anodized aluminium
Dimensions of the housing	mm	see drawing

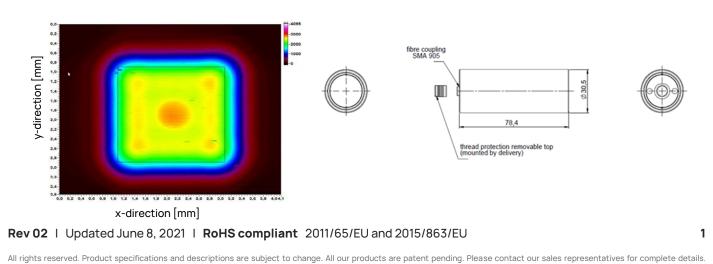
(1) Example for customization  $-\,$  customized field sizes and coatings on request

(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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