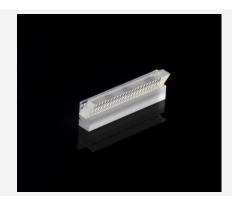


## **Beam Transformation System**

# BTS(FAC365)-P0.5



### **Features and Advantages**

Beam Transformation System (BTS) for diode laser bars with up to 19 emitters: emitter size up to 150  $\mu$ m, emitter pitch 500  $\mu$ m. The BTS is used to make the beam parameter product of diode laser bars symmetrical for free beam lasers or fiber coupling.

The BTS consists of a FAC365 fast axis collimation lens, a lens array for 90° rotation of the emitters and a bottom tab.

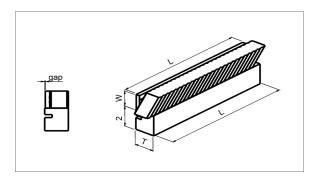
### **Product Specifications**

Specification Data	Unit	Value
Material		S-TIH53 (Ohara)
Length (L)	mm	11.5 ± 0.1
Width (W)	mm	1.5 ± 0.1
Thickness (T)	mm	$2.05 \pm 0.1$
Clear aperture	mm²	10.0 x 0.55
Back focal length BFL @ 808 nm	mm	0.09
Pitch	mm	0.5
Gap	mm	$0.05 \pm 0.01$
Numerical aperture (NA)		FA: 0.6 SA: 0.09
Transmission	%	> 98
Remaining divergence (FW1/e <sup>2</sup> ) for fast axis (1)	mrad	< 5.5

Product Code		MOD000475	MOD000683 <sup>(2)</sup>
Specification Data	Unit	Value	Value
AR-coating	nm	790-990	790 - 990
Divergence optimized at	nm	808	976

<sup>(1)</sup> Depending on laser parameters / specification is valid for an emitter-height of 1µm and no smile of the laser diode.

#### **Product Dimensions (mm)**



Rev 03 | Updated June 8, 2022 | RoHS compliant 2011/65/EU and 2015/863/EU

<sup>(2)</sup> Example for customization — customized coatings on request.