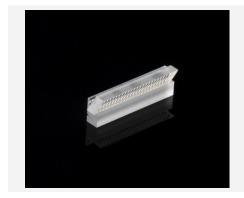


## **Beam Transformation System** BTS(FAC365)-P0.5



## **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**

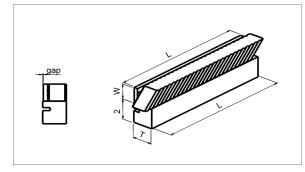
Specification Data		Unit	Value
Specification Data		Unit	
Material			S-TIH53 (Ohara)
Length (L)		mm	11.5 ± 0.1
Width (W)		mm	1.5 ± 0.1
Thickness (T)		mm	2.05 ± 0.1
Clear aperture		mm²	10.0 x 0.55
Back focal length BFL @ 808 nm		mm	0.09
Pitch		mm	0.5
Gap		mm	$0.05 \pm 0.01$
Numerical aperture (NA)			FA: 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.

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

## **Product Dimensions (mm)**

LIMO GmbH



Rev 02 | Updated April 15, 2021 | RoHS compliant 2011/65/EU and 2015/863/EU

1

All rights reserved. Product specifications and descriptions are subject to change. All our products are patent pending. Please contact our sales representatives for complete details. Address: Bookenburgweg 4-8, 44319 Dortmund, Germany Focuslight (Dongguan) Microoptics Co. Ltd. Address: Room 301, Building 9, 38 Dongke Road, Dongcheng Street, Dongguan, Guangdong, P.R. China

Tel: +49 231 22 24 1 - 0 (DE) +86 29 8956 0050 (CN) | Email: sales@focuslight.com | Website: https://www.focuslight.com