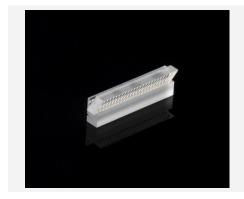


Beam Transformation System BTS(FAC365)-P0.4



Features and Advantages

Beam Transformation System (BTS) for diode laser bars with up to 25 emitters: emitter size up to 200 $\mu\text{m},$ emitter pitch 400 $\mu\text{m}.$ 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

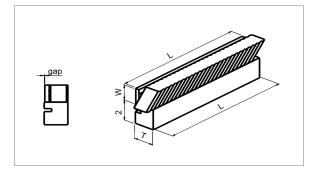
Specification Data		Unit	Value
Specification Data		Onit	
Material			S-TIH53 (Ohara)
Length (L)		mm	12.0 ± 0.1
Width (W)		mm	1.5 ± 0.1
Thickness (T)		mm	2.05 ± 0.1
Clear aperture		mm²	10.5 x 0.55
Back focal length BFL @ 808 nm		mm	0.09
Pitch		mm	0.4
Gap		mm	0.05 ± 0.01
Numerical aperture (NA)			FA: 0.5 SA: 0.06
Transmission		%	> 98
Remaining divergence (FW1/e ²) for fast axis $^{(1)}$		mrad	< 6
Product Code		MOD000687 ⁽²⁾	MOD000672 ⁽²⁾
Specification Data	Unit	Value	Value
AR-coating	nm	790-990	790 - 990
Divergence optimized at	nm	808	976

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

⁽²⁾ Example for customization – customized coatings on request.

Product Dimensions (mm)

LIMO GmbH



Rev 03 | Updated June 8, 2022 | 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 (DG) Microoptics Co. Ltd. Address: No. 49, Jingyi Road, Dongcheng Street, Dongguan City, Guangdong Province, China Tel: +49 231 22 24 1 - 0 (DE) +86 29 8956 0050 (CN) | Email: sales@focuslight.com | Website: https://www.focuslight.com