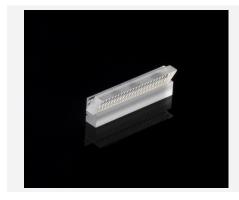


Beam Transformation System BTS(FAC160)-P0.2 FS for very high power bars



Features and Advantages

Beam Transformation System (BTS) for diode laser bars with up to 50 emitters: emitter size up to 100 μ m, emitter pitch 200 μ 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 FAC160 fast axis collimation lens, a lens array made of low OH fused silica for 90° rotation of the emitters and a bottom tab. The BTS is optimized for power > 300W cw.

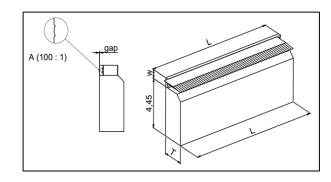
Product Specifications

(4)		
Specification Data (1)	Unit	Value
Material		Fused Silica (IR grade, low absorption)
Length (L)	mm	12 ± 0.1
Width (W)	mm	0.8 ± 0.1
Clear aperture	mm ²	10.0 x 0.25
Back focal length BFL @ 980 nm	mm	0.034
Pitch	mm	0.2
Gap	mm	0.0 ± 0.01
Numerical aperture (NA)		FA: 0.5 SA: 0.09
Transmission	%	> 98
Remaining divergence (FW1/ e^2) for fast axis $^{(2)}$	mrad	< 12
Product Code		MOD000749 ⁽¹⁾
Specification Data	Unit	Value
AR-coating	nm	940 - 998
Thickness (T)	mm	2.06 ± 0.05

⁽¹⁾ Example for customization – customized coatings and different pitches (e.g. 0.4 or 0.5mm) on request.

⁽²⁾ 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 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

LIMO GmbH