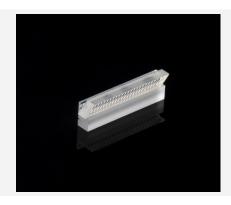


Beam Transformation System

BTS(FAC286)-P0.5



Features and Advantages

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

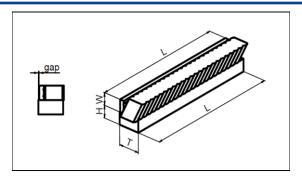
The BTS consists of a FAC286 fast axis collimation lens, a lens array for 90° rotation of the emitters and a bottom tab.

Product Specifications

Specification Data	Unit	Value
Material		S-TIH53 (Ohara)
Length (L)	mm	11.5 ± 0.1
Width (W)	mm	1.0 ± 0.1
Thickness (T)	mm	1.86 ± 0.1
Clear aperture	mm²	10.0×0.45
Back focal length BFL @ 808 nm	mm	0.09
Pitch	mm	0.5
Gap	mm	0.0 ± 0.01
Numerical aperture (NA)		FA: 0.6 SA: 0.1
Transmission	%	> 98
Remaining divergence (FW1/e²) for fast axis (1)	mrad	< 7
Product Code		MOD000730
Specification Data (2)	Unit	Value
AR-coating	nm	785-810
Divergence optimized for	nm	808
Height of bottom tab (H)	mm	0.5 ± 0.1

⁽¹⁾ 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

⁽²⁾ Customized coatings on request.