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## General Description:

## | Advanced Optical Solutions |

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.

## Specification Data

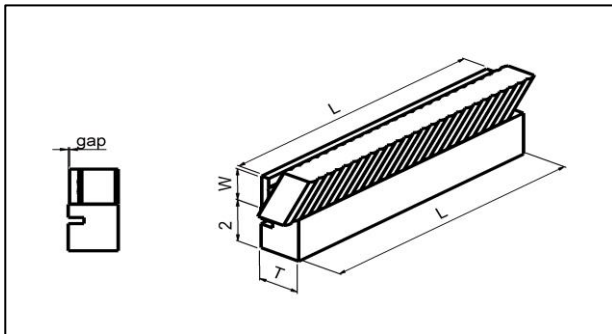
	Unit	Value
Material		S-TIH53 (Ohara)
Length (L)	mm	12.0 $\pm$ 0.1
Width (W)	mm	1.5 $\pm$ 0.1
Thickness (T)	mm	2.05 $\pm$ 0.1
Clear aperture	mm <sup>2</sup>	10.5 x 0.55
Surface quality @ 633 nm		$\lambda/4$ (typically)
Back focal length BFL @ 808 nm	mm	0.095
Pitch	mm	0.4
Gap	mm	0.05 $\pm$ 0.01
Numerical aperture (NA)		FA: 0.5 SA: 0.06
Transmission	%	> 98
Remaining divergence (FW1/e <sup>2</sup> ) for fast axis (*)	mrad	< 6

## Product Codes

AR-coating	Product code	Note
790 - 990 nm	MOD000687	Divergence optimized for 808 nm
790 - 990 nm	MOD000672	Divergence optimized for 976 nm

## On request

Customized coating



(\*) Valid for an emitter-height of 1 $\mu\text{m}$  and no smile of the laser diode.

**RoHS compliant**  
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Version May 16, 2019