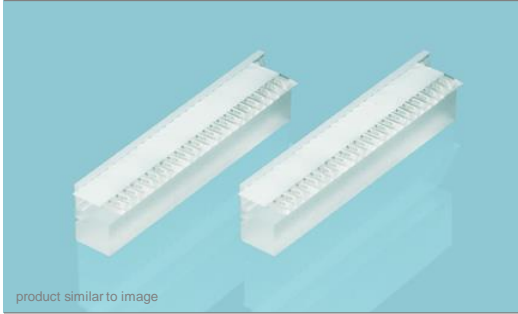


# BTS(FAC410)-P0.5



## General Description:

## | Advanced Optical Solutions |

Beam Transformation System (BTS) for diode laser bars with up to 19 emitters: emitter size up to 150  $\mu\text{m}$ , pitch 500  $\mu\text{m}$ . 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 FAC410 fast axis collimation lens, a diagonal lens array for rotating the beams by 90° and a bottom tab for mounting.

## Specification Data

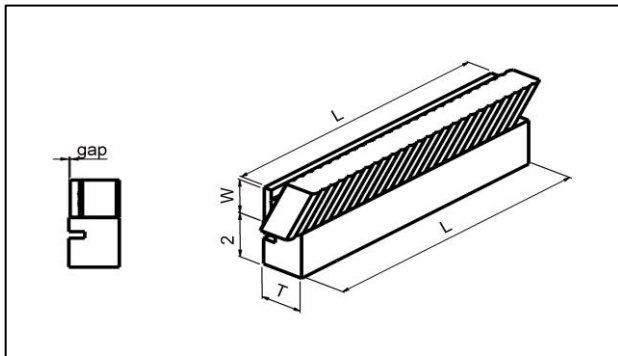
	Unit	Value
Material		S-NPH3 / S-TIH53 (Ohara)
Length (L)	mm	11.5 $\pm$ 0.1
Width (W)	mm	1.5 $\pm$ 0.1
Thickness (T)	mm	2.15 $\pm$ 0.1
Clear aperture	mm <sup>2</sup>	10.0 x 0.7
Surface quality @ 633 nm		$\lambda/4$ (typically)
Back focal length BFL @ 980 nm	mm	0.125
Pitch	mm	0.5
Gap	mm	0.08 $\pm$ 0.01
Numerical aperture (NA)		FA: 0.6 SA: 0.08
Transmission	%	> 98
Remaining divergence (FW1/e <sup>2</sup> ) for fast axis	mrad	< 5.0

## Product Codes

AR-coating	Product code	Note
790 - 990 nm, R<0.5%	MOD000684	Divergence optimized for 808 nm
790 - 990 nm, R<0.5%	MOD000685	Divergence optimized for 976 nm

## Options

Customized coating



**RoHS compliant**  
2002/95/EG

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