



product similar to image

General Description:

| Advanced Optical Solutions |

Beam Transformation System (BTS) for diode laser bars with up to 50 emitters: emitter size up to 100 μm , pitch 200 μm . The BTS is used to make the beam parameter product of diode laser bars symmetrical for free beam lasers or fiber coupling.

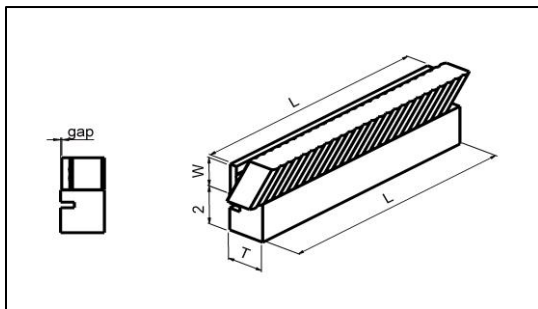
The BTS consists of a FAC160 fast axis collimation lens, a diagonal lens array for rotating the beams by 90° and a bottom tab for mounting.

Specification Data

	Unit	Value
Material		S-NPH3 / S-TIH53 (Ohara)
Length (L)	mm	12 \pm 0.1
Width (W)	mm	0.8
Clear aperture	mm ²	10.5 x 0.25
Surface quality @ 633 nm		$\lambda/4$ (typically)
Back focal length BFL @ 980 nm	mm	0.034
Pitch	mm	0.2
Gap	mm	0.0 \pm 0.01
Numerical aperture (NA)		FA: 0.5 SA: 0.09
Transmission	%	> 98
Remaining divergence (FW1/e ²) for fast axis (*)	mrad	< 12

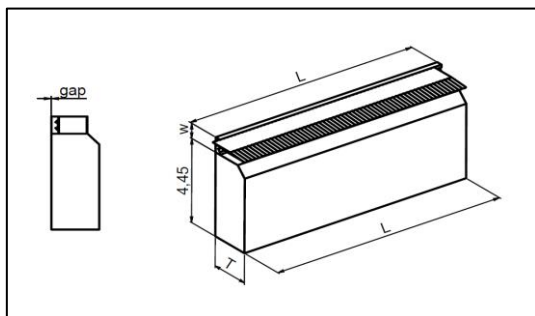
Product Codes

AR-coating	Product code	Thickness (T)	Note
600 - 700 nm	MOD000674	1.5 \pm 0.1 mm	Divergence measured at 808 nm
790 - 990 nm	MOD000681	1.5 \pm 0.1 mm	Divergence optimized for 808 nm
790 - 990 nm	MOD000682	1.5 \pm 0.1 mm	Divergence optimized for 976 nm



Product Codes

AR-coating	Product code	Thickness (T)
948 - 998 nm	MOD000722	2.06 \pm 0.1 mm



RoHS compliant
2002/95/EG

Copyright © 2011 LIMO GmbH. All rights reserved. All LIMO products are patent pending. Subject to change without notice.

Version June 22, 2018

(*) Valid for an emitter-height of 1 μm and no smile of the laser diode.