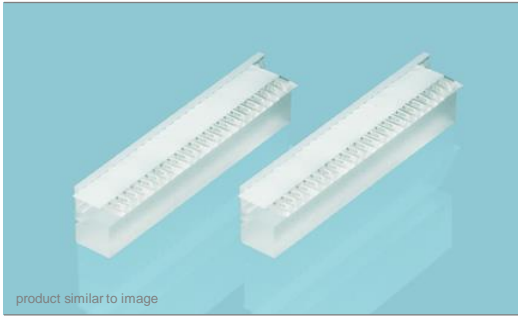


BTS(FAC160)-P0.2 FS for Very High Power Bars

Product number: MOD000749



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.

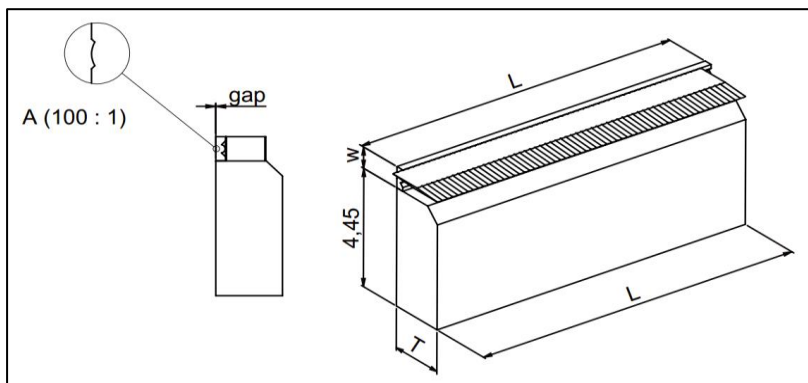
The BTS consists of a FAC160 fast axis collimation lens, a diagonal lens array for rotating the beams by 90° and a bottom tab for mounting. The optical elements are made of Fused Silica so that it withstands powers of 300 W or even higher.

Specification Data	Unit	Value
Material		Fused Silica (IR grade, low absorption)
Length (L)	mm	12 \pm 0.1
Width (W)	mm	0.8
Thickness (T)	mm	2.06 \pm 0.05
Clear aperture	mm ²	10.0 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
AR-coating	nm	940-998
Transmission	%	> 98
Remaining divergence (FW1/e ²) for fast axis (*)	mrad	< 12

Options

Customized coating

Different pitch, e.g. 0.4 or 0.5 mm



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

RoHS compliant
2002/95/EG

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