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

Product number: MOD000749





General Description:

| Advanced Optical Solutions |

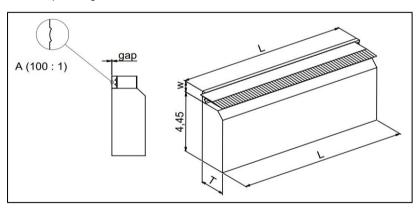
Beam Transformation System (BTS) for diode laser bars with up to 50 emitters: emitter size up to 100 $\mu m,$ emitter pitch 200 $\mu m.$ The BTS is used to make the beam parameter product of diode laser bars symmetrical for free beam lasers or fiber coupling.

The BTS consists of a FAC160 fast axis collimation lens, a lens array made of low OH fused silica for 90° rotation of each emitter, and a bottom tab. The BTS is optimized for power > 300 W CW.

Specification Data	Unit	Value
Material		Fused Silica (IR grade, low absorption)
Length (L)	mm	12 ± 0.1
Width (W)	mm	0.8
Thickness (T)	mm	2.06 ± 0.05
Clear aperture	mm²	10.0 x 0.25
Surface quality @ 633 nm		λ/4 (typically)
Back focal length BFL @ 980 nm	mm	0.034
Pitch	mm	0.2
Gap	mm	0.0 ± 0.01
Numerical aperture (NA)		FA: 0.5 SA: 0.09
AR-coating	nm	940-998
Transmission	%	> 98
Remaining divergence (FW1/e²) for fast axis (*)	mrad	< 12

On request

Customized coating
Different pitch, e.g. 0.4 or 0.5 mm



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

RoHS compliant

2002/95/EG

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