

Telescope Array 150/500 and 200/400

Slow Axis Collimator Array with double side structure



Features and Advantages

Telescope-Arrays for the collimation of the slow axis of diode laser bars with an emitter pitch of 400 or 500 μm .

Product Specifications

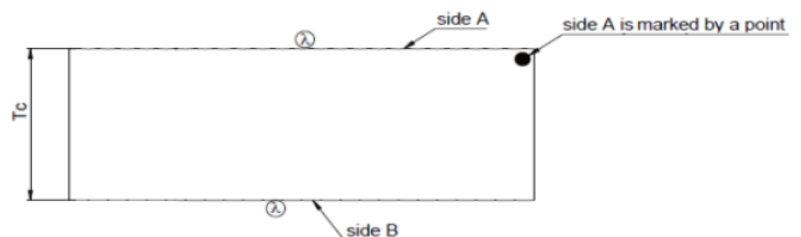
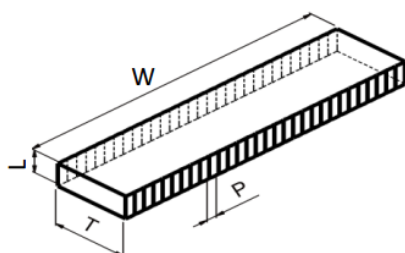
Specification Data	Unit	Value		
Material		S-TIH53 (Ohara)		
Refractive Index n @ 808 nm		1.823		
Product Code		ZLA000390 ⁽¹⁾⁽²⁾	ZLA000579 ⁽¹⁾	ZLA000593 ⁽²⁾
Specification Data	Unit	Value		
Width (W)	mm	12.0 \pm 0.05	12.0 \pm 0.05	10.8 \pm 0.05
Length (L)	mm	1.5 \pm 0.05	1.0 \pm 0.05	1.0 \pm 0.05
Thickness (T)	mm	4.5 \pm 0.01	2.93 \pm 0.01	2.93 \pm 0.01
Pitch (P)	μm	500	400	400
Max. Emitter Size	μm	150	200	200
Clear Aperture ($A_W \times A_L$)	mm^2	11.0 x 1.4	11.0 x 0.9	10.4 x 0.9
Average Radius - Side A / Side B	mm	2.05 \pm 0.04 / 3.95 \pm 0.08	1.35 \pm 0.03 / 2.56 \pm 0.05	1.35 \pm 0.03 / 2.56 \pm 0.05
Effective Focal Length (EFL) @ 808 nm	nm	2.48	1.62	1.62
Numerical Aperture (NA)		0.09	0.08	0.08
Typical Remaining Divergence (FW/e^2)	mrad	65	100	100
AR Coating	nm	790 - 990	790 - 990	760 - 850
Transmission	%	> 99	> 99	> 99
Surface Imperfections (DIN ISO10110-7)		5/ 10x0.025; C4x0.1; L4x0.04 E ⁽³⁾	5/ 10x0.025; C2x0.1; L2x0.025 E ⁽³⁾	5/ 10x0.025; C4x0.1; L4x0.04 E ⁽³⁾

⁽¹⁾ Mark on side A applies (see drawing below)

⁽²⁾ Example for customization – design, dimensions, coatings & bottom tabs for mounting on request.

⁽³⁾ Chipping on short edge 0.2, chipping on long edge 0.08.

Product Drawing (mm)



Rev 02 | Updated April 19, 2021 | RoHS compliant 2011/65/EU and 2015/863/EU

1

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LIMO GmbH

Address: Bookenburgweg 4-8, 44319 Dortmund, Germany

Focuslight (Dongguan) Microoptics Co. Ltd.

Address: Room 301, Building 9, 38 Dongke Road, Dongcheng Street, Dongguan, Guangdong, P.R. China

Tel: +49 231 22 24 1 - 0 (DE) +86 29 8956 0050 (CN) | Email: sales@focuslight.com | Website: <https://www.focuslight.com>