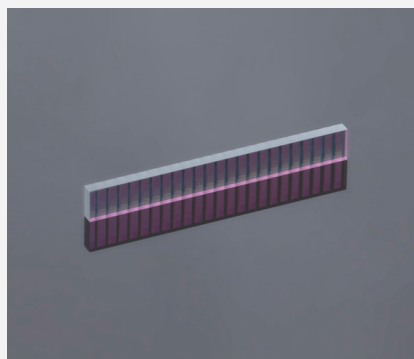


Slow Axis Collimator Array

SACA 1000 μm Pitch



Features and Advantages

SAC-Arrays for the collimation of the slow axis of diode laser bars with an emitter pitch of 1000 μm .

Product Specifications

Specification Data	Unit	Value
Material		S-TIH53 (Ohara)
Refractive Index n @ 976 nm		1.814
Pitch (P)	μm	1000
Surface Imperfections (DIN ISO 10110-7)		5/ 2x0.063; C3x0.063; L3x0.016

Product Code **ZLA001510⁽¹⁾**

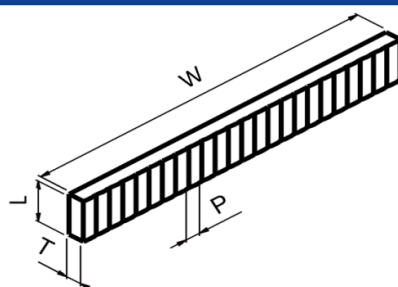
Specification Data	Unit	Value
Width (W)	mm	5.8 ± 0.05
Length (L)	mm	1.4 ± 0.05
Thickness (T)	mm	1.0 ± 0.05
Clear Aperture ($A_W \times A_L$)	mm^2	5.0×1.0
Radius	mm	6.520
Effective Focal Length (EFL) @ 976 nm	mm	8.01
Back Focal Length (BFL) @ 976 nm	mm	7.45
Numerical Aperture (NA) ⁽²⁾		0.056
Typical remaining divergence (FW/e^2)	mrad	12.5
Standard Coating - AR	nm	930 - 995
Transmission	%	> 99
Surface Imperfections - Chipping ⁽³⁾		$E_{SE}0.25; E_{LE}0.2$

⁽¹⁾ Example for customization — design, dimensions, coatings & bottom tabs for mounting on request.

⁽²⁾ The NA depends on the emitter size (50, 100 or 150 μm).

⁽³⁾ Chipping: SE for chipping on short edge of the lens, LE for chipping on long edge of the lens.

Product Drawing (mm)



Rev 04 | Updated July 16, 2026 | RoHS compliant 2011/65/EU and 2015/863/EU

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