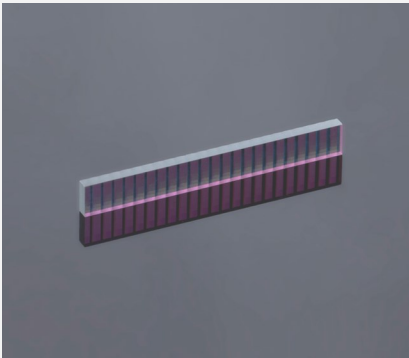


Slow Axis Collimator Array

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	ZLA002442 ⁽¹⁾	ZLA001510 ⁽¹⁾	ZLA002282 ⁽¹⁾
Specification Data	Unit	Value	Value
Width (W)	mm	5.8 \pm 0.05	6.0 \pm 0.05
Length (L)	mm	1.5 \pm 0.05	1.5 \pm 0.05
Thickness (T)	mm	1.0 \pm 0.05	1.0 \pm 0.02
Clear Aperture ($A_W \times A_L$)	mm ²	5.0 x 1.0	5.0 x 1.28
Radius	mm	6.520	2.854
Effective Focal Length (EFL) @ 976 nm	mm	8.01	3.50
Back Focal Length (BFL) @ 976 nm	mm	7.45	2.95
Numerical Aperture (NA) ⁽²⁾		0.056	0.13
Typical remaining divergence (FW/e ²)	mrad	12.5	28.5
Standard Coating - AR	nm	790 - 990	895 - 1005
Transmission	%	> 99	> 99
Surface Imperfections - Chipping ⁽³⁾		E0.25	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)

