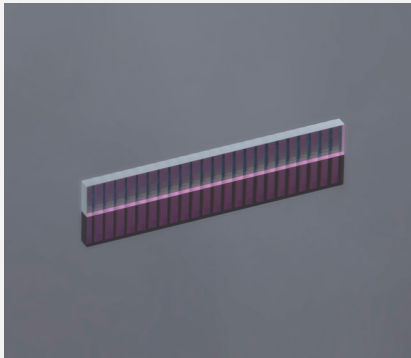


# Slow Axis Collimator Array

## SACA 1000 $\mu\text{m}$ Pitch



### Features and Advantages

SAC-Arrays for the collimation of the slow axis of diode laser bars with an emitter pitch of 1000  $\mu\text{m}$ .

### Product Specifications

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

Product Code	ZLA002442 <sup>(1)</sup>	ZLA001510 <sup>(1)</sup>	ZLA002282 <sup>(1)</sup>
<b>Specification Data</b>	<b>Unit</b>	<b>Value</b>	<b>Value</b>
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 ( $A_W \times A_L$ )	$\text{mm}^2$	$5.0 \times 1.0$	$5.0 \times 1.28$
Radius	mm	6.520	2.854
Effective Focal Length (EFL) @ 976 nm	nm	8.01	3.50
Back Focal Length (BFL) @ 976 nm	nm	7.45	2.95
Numerical Aperture (NA) <sup>(2)</sup>		0.056	0.13
Typical remaining divergence ( $\text{FW}/e^2$ )	mrad	12.5	28.5
Standard Coating - AR	nm	790 - 990	895 - 1005
Transmission	%	> 99	> 99
Surface Imperfections - Chipping <sup>(3)</sup>		E0.25	$E_{SE}0.25; E_{LE}0.2$

<sup>(1)</sup> Example for customization – design, dimensions, coatings & bottom tabs for mounting on request.

<sup>(2)</sup> The NA depends on the emitter size (50, 100 or 150  $\mu\text{m}$ ).

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

### Product Drawing (mm)

