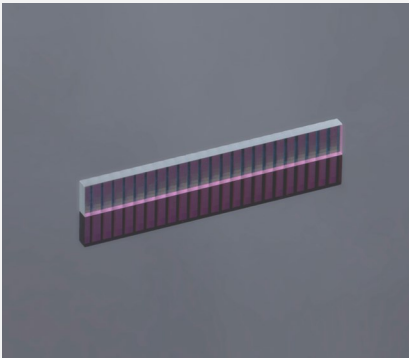


Slow Axis Collimator Array

SACA 500 μm Pitch



Features and Advantages

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

Product Specifications

Specification Data	Unit	Value
Material		S-TIH53 (Ohara)
Width (W)	mm	12.0 \pm 0.05
Length (L)	mm	1.5 \pm 0.05
Clear Aperture ($A_w \times A_L$)	mm ²	11.0 x 1.34
Refractive Index n @ 808 nm		1.823
Pitch (P)	mm	0.5
Standard Coating - AR	nm	790 - 990
Transmission	%	> 99
Surface imperfections (DIN ISO 10110-7)		5/ 15x0.025; C2x0.1; L2x0.04; E ⁽¹⁾

Product Code	ZLA000566	ZLA000567	ZLA000570 ⁽²⁾	
Specification Data	Unit	Value	Value	
Diode Structure	$\mu\text{m} / \mu\text{m}$	150 / 500	100 / 500	50 / 500
Thickness (T)	mm	0.55 \pm 0.01	0.55 \pm 0.01	1.0 \pm 0.05
Radius	mm	1.49 \pm 0.03	2.37 \pm 0.05	3.50 \pm 0.07
Effective Focal Length (EFL) @ 808 nm	mm	1.81	2.88	4.25
Back Focal Length (BFL) @ 808 nm	mm	1.50	2.58	3.70
Numerical Aperture (NA) ⁽³⁾		0.09	0.065	0.05
Typical remaining divergence (FW/e ²)	mrad	90	40	15

⁽¹⁾ Chipping on short edge 0.2, chipping on long edge 0.08.

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

⁽³⁾ The NA depends on the emitter size (50, 100 or 150 μm)

Product Drawing (mm)

