Slow-Axis Collimation

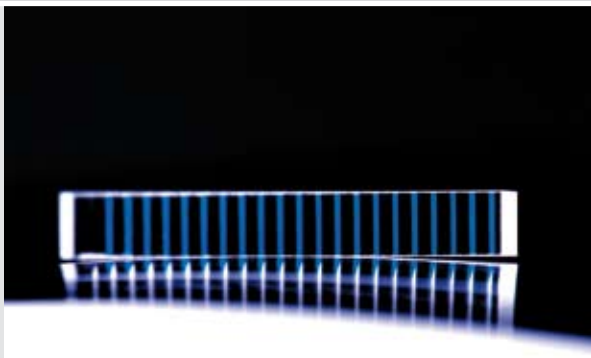
SAC Lenses

General Description

The Slow-Axis-Collimation optic is a highly efficient means of forming the beam in the slow axis of diode lasers. It is available either as a monolithic array of cylindrical lenses or as a single lens. All of our optics are produced using high-quality optical glass. The exacting product tolerances guarantee efficient collimation of the light from all emitters and compatibility with laser bars and stacks.

Advantages

- highest beam quality
- monolithic design
- efficient collimation
- transmission up to 99%
- highest level of precision and uniformity
- long term stability
- optimized design



Service

We also design, develop and manufacture customized SAC lenses, which have been optimized to meet the specific requirements of your application. In order to simplify mounting, we also offer the SAC lenses with additional surfaces for mounting and/or support structures.

Quality

We operate a 100% quality control policy. By testing the lenses in an environment identical to the conditions they will encounter in industrial practice, we ensure that there is no discrepancy between our test results and the results subsequently achieved when our optic is used within its intended application at your site. In conjunction with our sophisticated manufacturing technology, this guarantees the production of optics with unsurpassed collimation characteristics.

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Specification Data

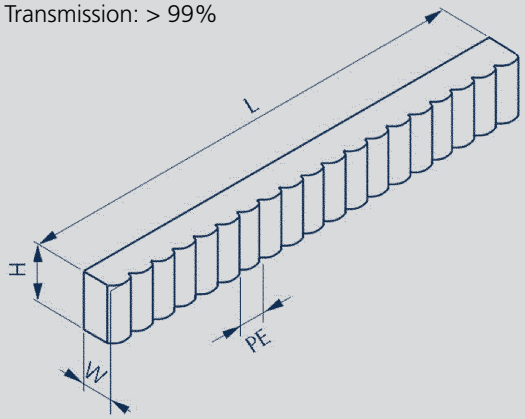
Lens Type	NA	EFL [mm]	PE [mm]	L [mm]	H [mm]	W [mm]
SAC-022-500	0.10	2.18	0.50	11.50	1.50	1.00
SAC-026-500	0.10	2.60	0.50	11.50	1.50	1.00
SAC-045-500	0.05	4.50	0.50	11.50	1.50	1.00
SAC-035-1000	0.14	3.50	1.00	13.00	1.50	1.00
SAC-060-1000	0.08	6.19	1.00	13.00	1.50	1.00
SAC-069-1000	0.07	6.90	1.00	13.00	1.50	1.00
SAC-073-1000	0.07	7.30	1.00	13.00	1.50	1.00
SAC-080-1000	0.06	8.25	1.00	13.00	1.50	1.00
SAC-100-1000	0.05	10.30	1.00	13.00	1.50	1.00
SAC-064-1300	0.10	6.40	1.30	14.30	4.00	1.00
SAC-125-2000	0.08	12.50	2.00	12.50	0.80	1.00
SAC-093-2500	0.13	9.30	2.50	12.50	0.80	1.00
SAC-123-2500	0.10	12.30	2.50	12.50	0.80	1.00
SAC-160-2500	0.08	16.42	2.50	12.50	0.80	1.00
SAC-200-2500	0.06	20.20	2.50	12.50	0.80	1.00
SAC-220-2500	0.05	22.00	2.50	12.50	0.80	1.00
SAC-290-3500	0.06	28.79	3.50	11.50	0.80	1.00

Options
Customized numerical aperture, focal length, back focal length and pitch
Customized length
Customized coating
Bottom, side taps or shoulders for mounting

NA: Numerical aperture
EFL: Effective focal length @ 808 nm
BFL: dependent on used FAC
PE: Pitch of emitter
Standard Coating: AR 780-1020 nm
Transmission: > 99%

L: Length [+/-0.10 mm) according to customer specification
H: Height (+/- 0.01 mm)
W: Width (+/- 0.01 mm)

Material: SCHOTT and OHARA optical glass



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