Fast Axis Collimator

FAC300 (BFL = 80µm)

Features and Advantages

Acylindrical lens for the collimation of the fast axis of diode lasers.

The new revision has an increased power content of >92% within ± 2.2 mrad and >94% of the energy within Gaussian distribution (negligible side peaks).

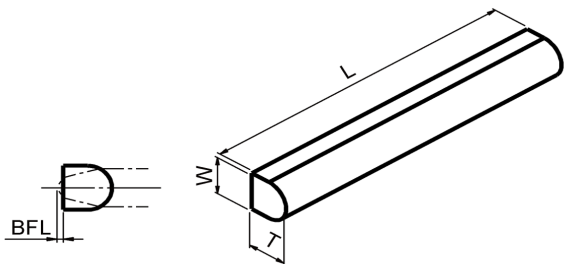
Product Specifications

Specification Data	Unit	Value
Material		S-TIH53 (Ohara)
Width (W)	mm	0.5 ± 0.05
Thickness (T)	mm	0.4 ± 0.01
Clear aperture	mm²	(L-0.5) x 0.4
Refractive index n @ 976 nm		1.814
Effective focal length (EFL) @ 976 nm	mm	0.30
Back focal length (BFL) @ 976 nm	mm	0.08
Numerical aperture (NA)		0.7
Transmission	%	> 99
Power within an angle of ± 2.2 mrad[1]	%	> 92
Power within Gaussian distribution	%	> 94
Surface imperfections (DIN ISO 10110-7)		5/2x0.025; C2x0.1; L2x0.025; E[2]

Product Code		ZLE002076	ZLE002074	ZLE002075[3]
Specification Data	**Unit**	**Value**	**Value**	**Value**
Length (L)	mm	4.0 ± 0.05	3.0 ± 0.05	2.0 ± 0.05
AR-Coating	nm	770 - 1070	770 - 1070	770 - 1070

[1] Valid for an emitter-height of 1µm and no smile of the laser diode.
[2] Chipping on short edge 0.2, chipping on long edge 0.05.
[3] Example for customization — design, dimensions & coatings on request.

Product Dimensions (mm)



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