

Fast Axis Collimator

 $FAC300 (BFL = 52\mu m)$



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 \pm 2.2 mrad and >94% of the energy within Gaussian distribution (negligible side peaks).

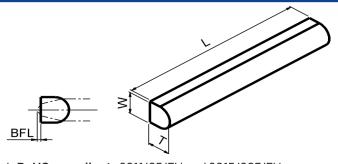
Product Specifications

Specification Data	Unit	Value
Material	O inc	S-TIH53 (Ohara)
		•
Width (W)	mm	0.55 ± 0.05
Thickness (T)	mm	0.45 ± 0.01
Clear aperture	mm²	$(L-0.5) \times 0.4$
Refractive index n @ 976 nm		1.814
Effective focal length (EFL) @ 976 nm	mm	0.30
Back focal length (BFL) @ 976 nm	mm	0.052
Numerical aperture (NA)		0.8
Transmission	%	> 99
Power within an angle of ± 2.2 mrad ⁽¹⁾	%	> 92
Power within Gaussian distribution	%	> 94

Product Code		ZLE001262 ⁽³⁾	ZLE001923 ⁽³⁾	ZLE001258 ⁽³⁾	ZLE002099 ⁽³⁾
Specification Data	Unit	Value			
Length (L)	mm	2.0 ± 0.05	4.0 ± 0.05	12.0 ± 0.05	3.0 ± 0.05
AR-Coating	nm	790 - 990	790 - 990	790 - 990	760 - 850
Surface imperfections		5/2x0.025; C2x0.1;	5/5x0.025; C2x0.1;	5/2x0.1; C2x0.1;	5/2x0.025; C2x0.1;
(DIN ISO 10110-7)		L2x0.025; E ⁽²⁾	L2x0.025; E ⁽²⁾	L2x0.025; E ⁽²⁾	L2x0.025; E ⁽²⁾

 $^{^{\}left(1\right)}$ Valid for an emitter-height of 1 μm and no smile of the laser diode.

Product Drawing (mm)



Rev 03 | Updated June 8, 2022 | **RoHS compliant** 2011/65/EU and 2015/863/EU

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 $^{^{\}left(2\right)}$ Chipping on short edge 0.2, chipping on long edge 0.08.

 $^{^{(3)}}$ Example for customization — design, dimensions & coatings on request.