Fast Axis Collimator

$FAC300 (BFL = 80\mu m)$



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).

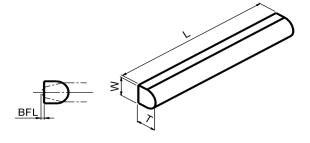
Product Specifications

Specification Data	Unit	Value	
Material		S-TIH53 (Ohara)	
Width (W)	mm	0.5 ± 0.05	
Thickness (T)	mm	0.4 ± 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	0.08	
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

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

Product Dimensions (mm)



Rev 02 | Updated April 16, 2021 | RoHS compliant 2011/65/EU and 2015/863/EU

 $^{^{\}left(2\right)}$ Chipping on short edge 0.2, chipping on long edge 0.05.

⁽³⁾ Example for customization — design, dimensions & coatings on request.