## **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).

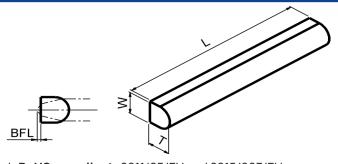
## **Product Specifications**

Specification Data	Unit	Value
Material		S-TIH53 (Ohara)
Width (W)	mm	$0.55 \pm 0.05$
Thickness (T)	mm	$0.45 \pm 0.01$
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 <sup>(1)</sup>	%	> 92
Power within Gaussian distribution	%	> 94

Product Code		ZLE001262 <sup>(3)</sup>	ZLE001923 <sup>(3)</sup>	ZLE001258 <sup>(3)</sup>	ZLE002099 <sup>(3)</sup>
Specification Data	Unit	Value			
Length (L)	mm	$2.0 \pm 0.05$	$4.0 \pm 0.05$	$12.0 \pm 0.05$	$3.0 \pm 0.05$
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 <sup>(2)</sup>	L2x0.025; E <sup>(2)</sup>	L2x0.025; E <sup>(2)</sup>	L2x0.025; E <sup>(2)</sup>

 $<sup>\</sup>overline{\ ^{(1)}}$  Valid for an emitter-height of 1 $\mu m$  and no smile of the laser diode.

## **Product Drawing (mm)**



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

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

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