

## **Fast Axis Collimator**

# FAC590 (W0.8)



#### **Features and Advantages**

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

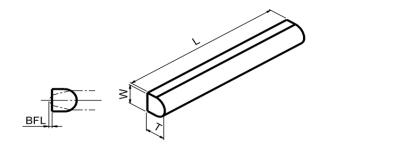
### **Product Specifications**

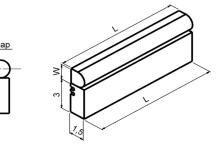
Specification Data	Unit	Value
Material		S-TIH53 (Ohara)
Width (W)	mm	$0.8 \pm 0.05$
Thickness (T)	mm	$0.8 \pm 0.01$
Refractive index n @ 808 nm		1.823
Effective focal length (EFL) @ 808 nm	mm	0.59
Back focal length (BFL) @ 808 nm	mm	0.15
Numerical aperture (NA)		0.6
Transmission	%	> 99
Power within an angle of ± 1.1 mrad <sup>(1)</sup>	%	> 85

Product Code		ZLE002131 <sup>(3)</sup>	ZLE002155 <sup>(3)</sup>	ZLE002163 <sup>(3)</sup>
Specification Data	Unit	Value		
Length (L)	mm	$8.2 \pm 0.1$	$8.2 \pm 0.1$	11.58 ± 0.1
Clear aperture	mm²	$7.0 \times 0.7$	$7.0 \times 0.7$	11.0 x 0.7
AR-Coating	nm	790 - 990	600 - 700	790 - 1070
Surface imperfections		5/8x0.025; C2x0.1;	5/8x0.025; C2x0.1;	5/8x0.025; C2x0.1;
(DIN ISO 10110-7)		L2x0.025; E <sup>(2)</sup>	L2x0.025; E <sup>(2)</sup>	L2x0.025; E <sup>(2)</sup>

 $<sup>^{(1)}</sup>$  Valid for an emitter-height of 1  $\mu m$  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

<sup>(2)</sup> Chipping on short edge 0.2, chipping on long edge 0.08.

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