

# 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 ± 0.05
Thickness (T)	mm	0.8 ± 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>
<b>Specification Data</b>	<b>Unit</b>	<b>Value</b>	
Length (L)	mm	8.2 ± 0.1	11.58 ± 0.1
Clear aperture	mm <sup>2</sup>	7.0 x 0.7	11.0 x 0.7
AR-Coating	nm	790 - 990	790 - 1070
Surface imperfections (DIN ISO 10110-7)		5/8x0.025; C2x0.1; L2x0.025; E <sup>(2)</sup>	5/8x0.025; C2x0.1; L2x0.025; E <sup>(2)</sup>

<sup>(1)</sup> Valid for an emitter-height of 1 μm and no smile of the laser diode.

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

<sup>(3)</sup> Example for customization – design, dimensions & coatings on request.

### Product Drawing (mm)

