

# Fast Axis Collimator

## FAC360



### 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	$0.6 \pm 0.05$
Thickness (T)	mm	$0.53 \pm 0.01$
Clear aperture	mm <sup>2</sup>	$(L-0.5) \times 0.5$
Refractive index n @ 940 nm		1.816
Effective focal length (EFL) @ 940 nm	mm	0.36
Back focal length (BFL) @ 940 nm	mm	0.07
Numerical aperture (NA)		0.8
Transmission	%	> 99
Power within an angle of $\pm 1.8$ mrad <sup>(1)</sup>	%	> 92
Power within Gaussian distribution	%	> 94

Product Code	ZLE002148	ZLE002214 <sup>(3)</sup>	ZLE002290 <sup>(3)</sup>
<b>Specification Data</b>	<b>Unit</b>	<b>Value</b>	
Length (L)	mm	$4.0 \pm 0.05$	$8.55 \pm 0.05$
AR-Coating	nm	770 - 1070	770 - 1070
Surface imperfections (DIN ISO 10110-7)		5/2x0.025; C2x0.1; L2x0.02; E <sup>(2)</sup>	5/4x0.025; C2x0.1; L2x0.025; E <sup>(2)</sup>
			5/2x0.025; C2x0.1; 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.

<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)

