

Fast Axis Collimator

FAC590 (W1.0)



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	1.0 ± 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)		0.8
Power within an angle of ± 1.1 mrad ⁽¹⁾	%	> 85

Product Code	ZLE000627	ZLE000115
Specification Data	Unit	
Length (L)	mm	5.6 ± 0.05
Clear aperture	mm ²	4.8 x 0.9
AR-Coating	nm	770 - 1070
Transmission	%	> 99
Surface imperfections (DIN ISO 10110-7)		5/5x0.025; C2x0.04; L2x0.025; 5/10x0.025; C2x0.1; L3x0.025; E0.05

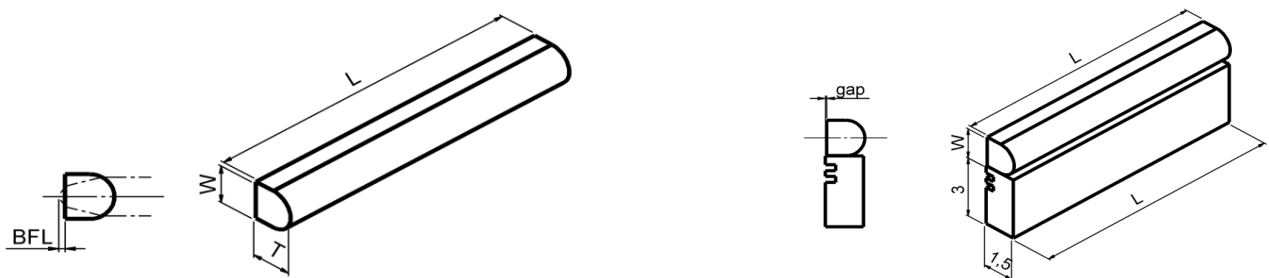
⁽¹⁾ Valid for an emitter-height of 1µm and no smile of the laser diode.

⁽²⁾ Chipping on short edge 0.2, chipping on long edge 0.08.

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

⁽⁴⁾ ZLE000115 with bottom tab (gap 0.1 mm).

Product Drawing (mm)



Rev 04 | Updated July 16, 2026 | RoHS compliant 2011/65/EU and 2015/863/EU

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