

Fast Axis Collimator FAC590 (W0.8)



Features and Advantages

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

Product Specifications

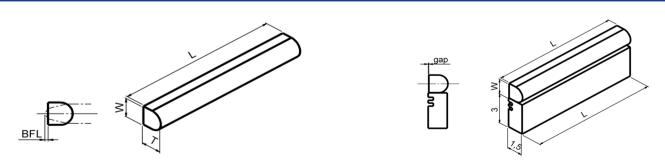
Specification Data		Unit	Value
Material			S-TIH53 (Ohara)
Width (W)		mm	0.8 ± 0.05
Thickness (T)		mm	0.8 ± 0.01
Refractive index n @ 808 nm			1.823
Effective focal length (EFL) @ 808 nm		mm	0.59
Back focal length (BFL) @ 808 nm		mm	0.15
Numerical aperture (NA)			0.6
Transmission		%	> 99
Power within an angle of $\pm 1.1 mrad^{(1)}$		%	> 85
Product Code		ZLE002131 ⁽³⁾	ZLE002155 ⁽³⁾
Specification Data	Unit	Value	
Length (L)	mm	8.2 ± 0.1	8.2 ± 0.1
Clear aperture	mm²	7.0 × 0.7	7.0 × 0.7
AR-Coating	nm	790 - 990	600 - 700
Surface imperfections (DIN ISO 10110-7)		5/8x0.025; C2x0.1; L2x0.025; E ⁽²⁾	5/8x0.025; C2x0.1; L2x0.025; E ⁽²⁾

 $^{(1)}$ Valid for an emitter-height of 1 μm 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.

Product Drawing (mm)



Rev 04 | Updated February 14, 2025 | RoHS compliant 2011/65/EU and 2015/863/EU

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