

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 ± 1.8 mrad and 94% of the energy within Gaussian distribution (negligible side peaks).

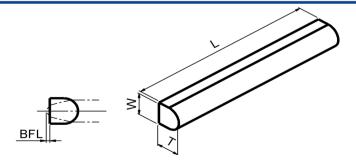
Product Specifications

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Specification Data	Unit	Value
Material		S-TIH53 (Ohara)
Width (W)	mm	0.6 ± 0.05
Thickness (T)	mm	0.53 ± 0.01
Clear aperture	mm²	$(L-0.5) \times 0.5$
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 ± 1.8 mrad ⁽¹⁾	%	> 92
Power within Gaussian distribution	%	> 94

Product Code		ZLE002384	ZLE002601 ⁽³⁾
Specification Data	Unit	Value	
Length (L)	mm	4.0 ± 0.05	4.5 ± 0.05
AR-Coating	nm	770 - 1070	770 - 1070
Surface imperfections (DIN ISO 10110-7)		5/2x0.025; C2x0.1; L2x0.02; E ⁽²⁾	5/4x0.025; C2x0.1; L2x0.025; E ⁽²⁾

 $[\]overline{\ ^{(1)}}$ Valid for an emitter-height of 1 μm and no smile of the laser diode.

Product Drawing (mm)



Rev 06 | Updated February 14, 2025 | RoHS compliant 2011/65/EU and 2015/863/EU

 $^{^{(2)}}$ Chipping on short edge 0.2, chipping on long edge 0.08.

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