

Fast Axis Collimator

FAC1100



Features and Advantages

Aspherical cylindrical lens for the collimation of the fast axis of diode lasers.

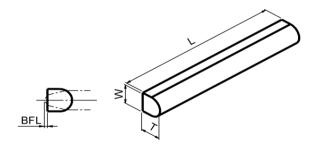
Product Specifications

Specification Data	Unit	Value
Material		S-TIH53 (Ohara)
Width (W)	mm	1.50 ± 0.05
Thickness (T)	mm	1.72 ± 0.01
Refractive index n @ 950 nm		1.815
Effective focal length (EFL) @ 950 nm	mm	1.10
Back focal length (BFL) @ 950 nm	mm	0.152
Numerical aperture (NA)		0.7
Transmission	%	> 99
Power within an angle of ± 0.6 mrad ⁽¹⁾	%	> 85

Product Code		ZLE001955 ⁽³⁾
Specification Data	Unit	Value
Length (L)	mm	12.0 ± 0.05
Clear aperture	mm²	11 x 1.4
AR-Coating	nm	790 - 990
Surface imperfections (DIN ISO 10110-7)		5/12x0.025; C2x0.1; L2x0.025; E ⁽²⁾

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

Product Drawing (mm)



Rev 04 | 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.

 $^{^{(3)}\}mbox{Example}$ for customization — design, dimensions & coatings on request.