

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⁾	ZLE002021 ⁽³⁾	ZLE002216 ⁽³⁾	
Specification Data	Unit	Value	Value	
Length (L)	mm	12.0 ± 0.05	2.0 ± 0.1	4.0 ± 0.1
Clear aperture	mm ²	11 x 1.4	1 x 1.4	3.5 x 1.4
AR-Coating	nm	790 - 990	790 - 990	790 - 990
Surface imperfections (DIN ISO 10110-7)		5/12x0.025; C2x0.1; L2x0.025; E ⁽²⁾	5/3x0.025; C2x0.1; L2x0.025; E ⁽²⁾	5/5x0.025; 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)

