

Fast Axis Collimator FAC1500 (BFL=490µm)



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	1.65 ± 0.05
Thickness (T)		mm	1.82 ± 0.01
Refractive index n @ 808 nm			1.823
Effective focal length (EFL) @ 808 nm		mm	1.49
Back focal length (BFL) @ 808 nm		mm	0.49
Numerical aperture (NA)			0.5
Transmission		%	> 99
Power within an angle of $\pm 0.8 \text{ mrad}^{(1)}$		%	> 85
Product Code		ZLE001250	ZLE000729 ⁽³⁾
Specification Data	Unit	Value	
Length (L)	mm	12.0 ± 0.05	4.0 ± 0.05
Clear aperture	mm²	11 x 1.5	3.5 x 1.5
AR-Coating	nm	790 - 990	1000 - 1600
Surface imperfections (DIN ISO 10110-7)		5/5x0.025; C2x0.063; L2x0.025; E ⁽²⁾	5/5x0.025; C1x0.1; L1x0.025; 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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