

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 ± 0.02
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 ± 0.8 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	mm ²	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)

