

Fast Axis Collimator

FAC510



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	0.78 ± 0.05
Thickness (T)	mm	0.78 ± 0.02
Refractive index n @ 975 nm		1.814
Effective focal length (EFL) @ 975 nm	mm	0.51
Back focal length (BFL) @ 975 nm	mm	0.078
Numerical aperture (NA)		0.8
Transmission	%	> 99.5
Power within an angle of ± 1.5 mrad ⁽¹⁾	%	> 90

Product Code	ZLE002153 ⁽³⁾	ZLE002278 ⁽³⁾	
Specification Data	Unit	Value	
Length (L)	mm	3.20 ± 0.05	6.0 ± 0.05
Clear aperture	mm ²	2.0 x 0.6	5.0 x 0.6
AR-Coating	nm	965 - 990	965 - 990
Surface imperfections (DIN ISO 10110-7)		5/5x0.025; C2x0.1; L2x0.025; E0.2 ⁽²⁾	5/8x0.025; C2x0.1; L2x0.025; E0.2 ⁽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)

