Fast Axis Collimator

FAC510



Features and Advantages

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

Product Specifications

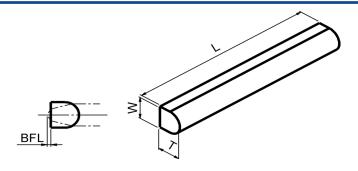
Specification Data		Unit	Value
Material			S-TIH53 (Ohara)
Width (W)		mm	0.78 ± 0.05
Thickness (T)		mm	0.78 ± 0.02
Refractive index n @ 975 nm			1.814
Effective focal length (EFL) @ 975 nm		mm	0.51
Back focal length (BFL) @ 975 nm		mm	0.078
Numerical aperture (NA)			0.8
Transmission		%	> 99.5
Power within 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	mm²	2.0×0.6	5.0×0.6

nm

Surface imperfections (DIN ISO 10110-7)

Product Drawing (mm)

AR-Coating



Rev 02 | Updated April 16, 2021 | RoHS compliant | 2011/65/EU and 2015/863/EU

965 - 990

965 - 990

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.

 $[\]ensuremath{^{(2)}}$ Chipping on short edge 0.2, chipping on long edge 0.08.

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