

Fast Axis Collimator

FAC910



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	1.5 ± 0.05
Thickness (T)	mm	1.5 ± 0.01
Clear aperture	mm ²	(L-0.5) × 1.4
Refractive index n @ 808 nm		1.823
Effective focal length (EFL) @ 808 nm	mm	0.91
Back focal length (BFL) @ 808 nm	mm	0.09
Numerical aperture (NA)		0.8
Transmission	%	> 99
Power within an angle of ± 0.7 mrad ⁽¹⁾	%	> 85
Surface imperfections (DIN ISO 10110-7)		5/12x0.025; C2x0.1; L2x0.025; E ⁽²⁾

Product Code	ZLE001410 ⁽³⁾	ZLE000178	ZLE000548 ⁽³⁾	MOD000554 ⁽⁴⁾
Specification Data	Unit	Value		
Length (L)	mm	12.0 ± 0.05	12.0 ± 0.05	12.0 ± 0.05
AR-Coating	nm	600 - 700	790 - 990	1000 - 1600

⁽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, bottom/side tabs & coatings on request.

⁽⁴⁾ ZLE000178 with bottom tab (gap 0.05 mm).

Product Drawing (mm)

