

Fast Axis Collimator Blue FAC 250



Features and Advantages

Acylindrical lens for the collimation of the fast axis of diode lasers.

The new revision has an increased power content of >92% within ± 1.5 mrad.

Product Specifications

Specification Data	Unit	Value
Material		FL-Blue
Width (W)	mm	0.4 ± 0.05
Thickness (T)	mm	0.3172± 0.01
Clear aperture	mm²	3.15 x 0.3
Refractive index n @ 445 nm		1.763
Effective focal length (EFL) @ 445 nm	mm	0.25
Back focal length (BFL) @ 445 nm	mm	0.07
Numerical aperture (NA)		0.75
Transmission	%	> 99
Power within an angle of $\pm 1.5 \text{ mrad}^{(1)}$	%	> 92

Product Code		ZLE002522 ⁽³⁾
Specification Data	Unit	
Length (L)	mm	3.5 ± 0.05
AR-Coating	nm	400 - 480
Surface imperfections		5/2x0.025; C2x0.1;
(DIN ISO 10110-7)		L2x0.025; E ⁽²⁾

(1) Valid for an emitter-height of 0.7 µm and no smile of the laser diode; the design of FAC250 is diffraction limited: (FW/e², Gaussian) remaining div. ~ emitter height / EFL(FAC) ⁽²⁾ Chipping on short edge 0.1, chipping on long edge 0.05.

⁽³⁾ Example for customization-design, dimensions & coating on request..

Product Drawing (mm)



Rev 01 | Updated September 25, 2023 | RoHS compliant 2011/65/EU and 2015/863/EU

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