

Fast Axis Collimator

FAC360



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 \pm 2.2 mrad and >94% of the energy within Gaussian distribution (negligible side peaks).

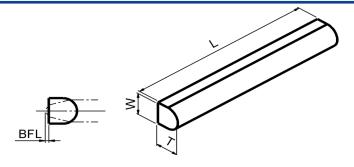
Product Specifications

Specification Data	Unit	Value
Material		S-TIH53 (Ohara)
Width (W)	mm	0.6 ± 0.05
Thickness (T)	mm	0.53 ± 0.01
Clear aperture	mm²	(L-0.5) x 0.5
Refractive index n @ 940 nm		1.816
Effective focal length (EFL) @ 940 nm	mm	0.36
Back focal length (BFL) @ 940 nm	mm	0.07
Numerical aperture (NA)		0.8
Transmission	%	> 99
Power within an angle of ± 1.8 mrad ⁽¹⁾	%	> 92
Power within Gaussian distribution	%	> 94

Product Code		ZLE002148	ZLE002214 ⁽³⁾	ZLE002290 ⁽³⁾
Specification Data	Unit	Value		
Length (L)	mm	4.0 ± 0.05	8.55 ± 0.05	4.0 ± 0.05
AR-Coating	nm	770 - 1070	770 - 1070	900 - 1100
Surface imperfections		5/2x0.025; C2x0.1;	5/4x0.025; C2x0.1;	5/2x0.025; C2x0.1;
(DIN ISO 10110-7)		L2x0.02; E ⁽²⁾	L2x0.025; E ⁽²⁾	L2x0.025; E ⁽²⁾

 $^{^{(1)}}$ Valid for an emitter-height of 1 μm and no smile of the laser diode.

Product Drawing (mm)



 $\textbf{Rev 03} \hspace{0.1cm} \textbf{|} \hspace{0.1cm} \textbf{Updated June 8, 2022} \hspace{0.1cm} \textbf{|} \hspace{0.1cm} \textbf{RoHS compliant} \hspace{0.1cm} \textbf{2011/65/EU and 2015/863/EU}$

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

 $^{^{(3)}}$ Example for customization — design, dimensions & coatings on request.