

# **Fast Axis Collimator**

## **FAC510**



#### **Features and Advantages**

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

965 - 990

 $5/5 \times 0.025$ ; C2x0.1; L2x0.025; E0.2<sup>(2)</sup>  $5/8 \times 0.025$ ; C2x0.1; L2x0.025; E0.2<sup>(2)</sup>

### **Product Specifications**

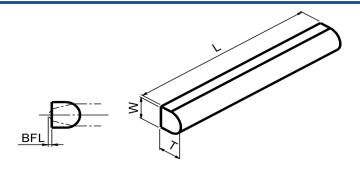
Specification Data		Unit	Value
Material			S-TIH53 (Ohara)
Width (W)		mm	$0.78 \pm 0.05$
Thickness (T)		mm	$0.78 \pm 0.02$
Refractive index n @ 975 nm			1.814
Effective focal length (EFL) @ 975 nm		mm	0.51
Back focal length (BFL) @ 975 nm		mm	0.078
Numerical aperture (NA)			0.8
Transmission		%	> 99.5
Power within an angle of $\pm$ 1.5 mrad <sup>(1)</sup>		%	> 90
Product Code		<b>ZLE002153</b> <sup>(3)</sup>	ZLE002278 <sup>(3)</sup>
Specification Data	Unit	Value	
Length (L)	mm	$3.20 \pm 0.05$	$6.0 \pm 0.05$
Clear aperture	mm²	$2.0 \times 0.6$	5.0 x 0.6

nm

Surface imperfections (DIN ISO 10110-7)

#### **Product Drawing (mm)**

AR-Coating



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

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<sup>(1)</sup> Valid for an emitter-height of 1 µm and no smile of the laser diode.

 $<sup>\</sup>ensuremath{^{(2)}}$  Chipping on short edge 0.2, chipping on long edge 0.08.

 $<sup>^{\</sup>mbox{\scriptsize (3)}}$  Example for customization — design, dimensions & coatings on request.