

# Fast Axis Collimator FAC160 FS



### **Features and Advantages**

Acylindrical biconvex lens for the collimation of the fast axis of diode lasers. The lens is made of low OH fused silica and optimized for diode laser bars with power > 300 W CW.

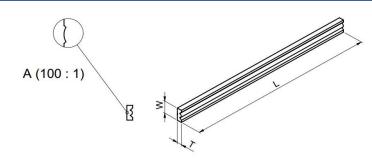
#### **Product Specifications**

| Specification Data                                     | Unit            | Value                             |
|--|-----------------|-----------------------------------|
| Material   |                 | Fused Silica                      |
| Width (W)  | mm              | $0.8 \pm 0.05$                    |
| Thickness (T)  | mm              | 0.3 ± 0.01                        |
| Refractive index n @ 980 nm                            |                 | 1.451                             |
| Effective focal length (EFL) @ 980 nm                  | mm              | 0.160                             |
| Back focal length (BFL) @ 980 nm                       | mm              | 0.034                             |
| Numerical aperture (NA)                                |                 | 0.8                               |
| Transmission   | %               | > 99                              |
| Power within an angle of $\pm$ 3.6 mrad <sup>(1)</sup> | %               | > 85                              |
| Product Code   |                 | ZLE002070 <sup>(2)</sup>          |
| Specification Data                                     | Unit            | Value                             |
| Length (L)   | mm              | 12.0 ± 0.05                       |
| Clear aperture (Side A)                                | mm <sup>2</sup> | 10.5 x 0.027                      |
| Clear aperture (Side B)                                | mm <sup>2</sup> | 10.5 x 0.262                      |
| AR-Coating   | nm              | 940 - 998                         |
| Surface imperfections (DIN ISO 10110-7)                |                 | 5/5x0.025; C2x0.1; L2x0.025; E0.2 |

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

 $^{\scriptscriptstyle (2)}$  Example for customization – design, dimensions & coatings on request.

## Product Drawing (mm)



#### Rev 03 | Updated June 8, 2022 | RoHS compliant 2011/65/EU and 2015/863/EU

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