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1550nm SMA collimator NA 0.5 focal length 8mm



• Product Description

Idealphotonics' fiber collimators are pre-aligned to collimate light from FC/APC-connected fibers and have diffraction-limited performance. These fiber collimators have no moving parts, are compact, and can be easily integrated into existing devices. Because aspheric lenses produce chromatic aberration, the effective focal length (EFL) is wavelength-dependent. The design wavelength is the wavelength corresponding to the ideal beam divergence. Some collimators at the design wavelength have different collimated beam diameters. When connected to specific single-mode fiber patch cords, they can collimate light at the design wavelength. In addition, the aspheric lenses are anti-reflection coated on both sides to minimize surface reflections (see the AR Coating Curves tab). For some applications, the collimators can also be used for other wavelengths within the AR coating wavelength range. Please refer to the theoretical divergence angle curves for each collimator to determine whether it is suitable for your application. These collimators have a stable operating range from -40°C to 93°C. Please note that these collimators cannot be used in a vacuum. For custom alignment wavelength, operating temperature or vacuum compatibility, please contact us

www.idealphotonics.com



for customization.

• Part Number

NIR-CLM-W1550-N5E8-SA

• Product features

Fiber Collimator with FC/APC Connector (2.2 mm Wide Key) for Single Mode

Patch Cables 、 Aligned wavelengths from 405 nm to 4.55 μm 、 Collimated

beam diameters from 0.63 mm to 4.05 mm, depending on wavelength Each

collimator is factory aligned , Simplifies fiber-coupled detection systems ,

Non-magnetic stainless steel housing compatible with narrow and wide key FC/APC plugs

• Application area

Fiber amplifiers WDM & DWDM systems Fiber optic equipment Fiber lasers

Parameters

General parameters Parameter Value **Focal length Ding** Other wavelengths can 1150.00 nm wavelength (nm) be customized Insertion loss dB ≤0.2 1550nm,30mw,DFB 1550.00 Corrected wavelength @25 °C (nm): 1310.00 nm Full temperature: **Effective aperture CA** 5.5 mm **-40-+75**℃ Effective focal length 11.0 mm EFL Shield diameter 11.00 mm Shield length 17.1 mm Other fiber types Numerical aperture N/A 0.25 NA available BBAR (1050-1600nm) Coating: FC Connector



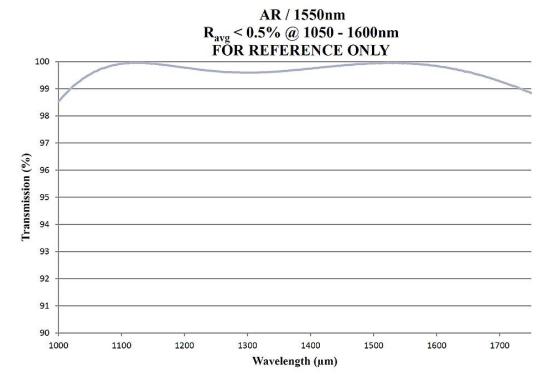
Return loss (light in/light out)	dB	> 60/55dB	
Maximum operating power	W	2	
Operating temperature	°C	-5-70 ℃	
Storage temperature	°C	-40-85 ℃	
Substrate	D-ZK3		
Refractive index nd:	1.586		
Effective focal length/effective aperture diameter ratio		2.00	
Wavelength range		1050 - 1600	
RoHS:		Comply with standards	
Test light source		1550nm Benchtop Light	
Package size (mm)		As shown below	
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Note:

*. All indicators are without connectors and are only valid at the above wavelengths, polarization states and temperatures.

**. Indicators are subject to change without prior notice.

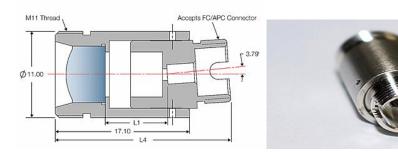
About coating



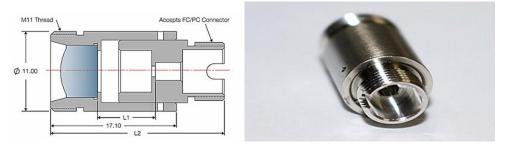




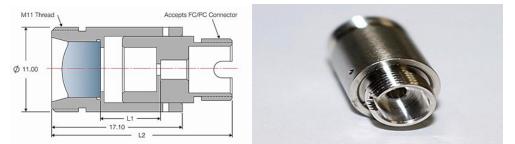
FC/APC Dimensions



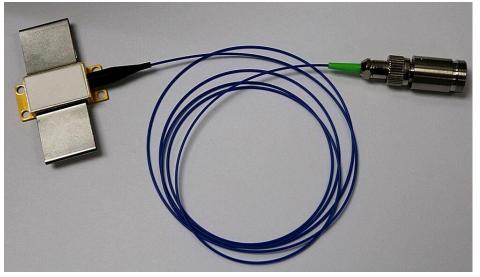
FC/PC Dimensions



SMA Dimensions



How to Use



www.idealphotonics.com





ΡN

NIR-CLM- W \square \square \square \square -S \bigcirc - XX W \square \square \square : Wavelength 0850:850nm 0980:980nm **** 1064:1064nm 1310:1310nm 1550:1550nm SO: NA&EFL N3E10=NA0.37,EFL=10.1mm N5E8= NA0.5,EFL=8mm N4E6=NA0.4,EFL=6.24mm N2E11=NA0.25,EFL=11mm N1E15=NA0.16,EFL=15.29mm XX: Connector Type FA= FC/APC FP= FC/PC SA=SMA



