

1550nm single-mode small spot fiber collimator



● Product Description

Idealphotonics' collimator products have sufficiently wide bandwidth, high return loss, and low polarization-dependent loss optical performance, which enable them to be widely used in various laser systems. At the same time, we can also easily provide customized product types such as various spot sizes, working distances, and product sizes.

● Part Number

PFCC1-21C11110

● Product features

Low insertion loss 、 No glue in optical path 、 Compact structure 、 High reliability and stability

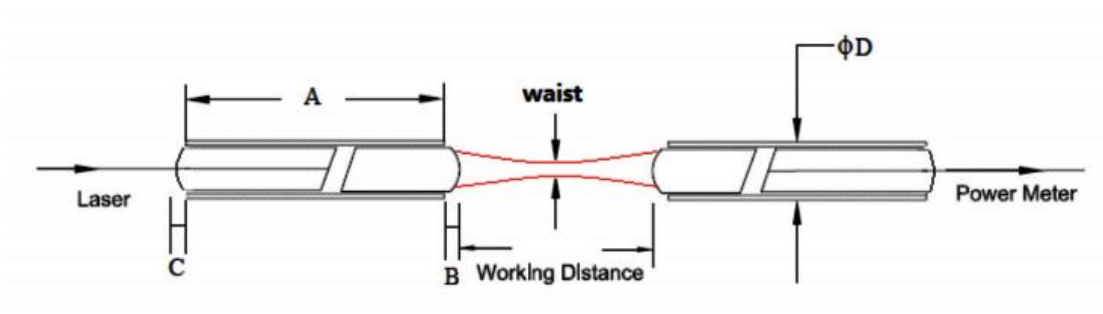
● Application area

Fiber optic devices and modules 、 Free space optical path integration 、 Optical

test system、 Sensing system

Parameters

Dimensional Drawing



Parameters

parameter	Unit	Value	Note
Operating wavelength	nm	1310 or 1550	Other wavelengths available
Bandwidth	nm	60	
Lens type	N/A	C-lens / G-lens	
Fiber type	N/A	SMF-28e+	Other fiber type available
Operating distance	mm	5.5 +/- 0.5 (standards)	Other distances available
Insertion loss	dB	0.15 (Typ.) 0.20 (Max.)	A pair of collimator losses
Return loss	dB	60	
Optical power	mW	500	
Spot size	mm	0.35 (Typ.) 0.50 (Max.)	2ω at 1/e ²
Operating temperature	0C	-5 ~ 70	Wider temperature
Storage temperature	0C	-40 ~ 85	
Dimension (ΦDx A)	mm	Φ 3.20 × 9 (with metal tube)	Customizable on request
		Φ2.78 × 9 (with glass tube)	
		Φ1.65 × 6 (with glass tube)	
Lens exposed	mm	1.0~2.0	Customizable on request
Fiber head exposed	mm	0~2.0	Customizable on request

Ordering information

E.g. : PFCC1-11C111110

