



## 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.

### ● Product features

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

## ● Part Number

MP-CLM-1550-5.5-SF

## ● Application area

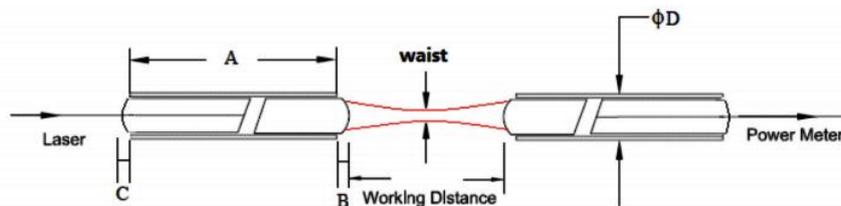
Fiber optic devices and modules、 Free space optical path integration、

Optical test system、 Sensing system

## ● Core parameters

Operating Wavelength	Operating Distance	Optical Power
1550nm	5.5mm	500mW

## ● Dimension Drawing



## ● General Parameters

### 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	



parameter	Unit	Value	Note
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.)	$2\omega$ at $1/e^2$
Operating temperature	0C	-5 ~ 70	Wider temperature
Storage temperature	0C	-40 ~ 85	
Dimension ( $\Phi$ Dx A)	mm	$\Phi$ 3.20 × 9 (with metal tube)	Customizable on request
		$\Phi$ 2.78 × 9 (with glass tube)	
		$\Phi$ 1.65 × 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

