

PM Fiber Collimator

Descriptions

The Polarization Maintaining fiber collimator is the basic element for PM fiber optics components, it characterized with low IL, high return loss, high extinction ratio

Features

- ▶ Low Insertion Loss
- ▶ High Return Loss
- ▶ High extinction ratio
- ▶ High stability & Reliability



Applications

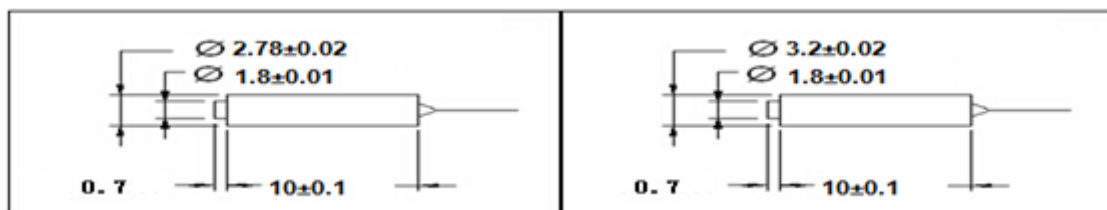
- ▶ PM fiber optical components
- ▶ Laboratory R&D

Specifications

Parameter	Unit	Value						
Center Wavelength	Nm	1550/1310	980/1060	850	780	633	532	405
Operating Wavelength Range	nm	±40	±20	±20	±15	±15	±15	±15
Typ.Insertion Loss at 23℃	dB	0.20	0.25	0.40	0.60	0.70	0.80	0.80
Max.Insertion Loss at 23℃	dB	0.25	0.30	0.50	0.70	0.80	1.00	1.00
Min.Extinction ratio at 23℃	dB	25	24	23	23	21	20	20
Min.Return Loss	dB	For APC: 60; For PC: 50						
Working distance (WD)	mm	5,10 or Customer Request						
Max.Optical Power(CW)	mW	500	300				100	
Max.Tensile Load	N	5						
Fiber Type	-	PM1550 /PM1310	PM 980	PM 850	PM 780	PM 630	PM 460	PM 405
Operating Temperature	℃	-5 ~ +75						
Storage Temperature	℃	-40 ~ +85						

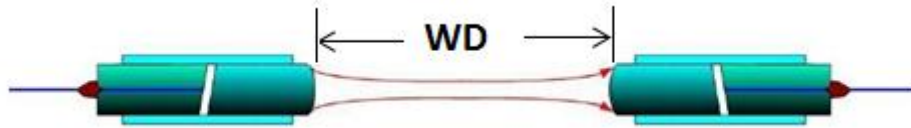
Remark: The above specification is without connector, IL is 0.3dB (1310~1550nm) or 0.40dB (980~1060) or 0.60dB (780~850) or 1.20dB (405~630) higher, RL is 5dB lower and ER is 2dB (1310~1550nm, 980~1060nm) or 3dB (405~850nm) lower for each connector added. The default connector key is aligned to slow axis

Package Dimensions



Glass tube

Metal holder



Fiber collimator Working distance

Ordering Information

PMCOLL — A — B — C — D — E — F — G — H		
A	Center Wavelength	1550=1550nm,1310=1310nm,1060=1060nm,etc
B	Configuration	S=Single fiber, D=Dual fiber
C	Lens type	C=C Lens, G=Grin Lens
D	Working Distance	5=5mm, 10=10mm,S=Specify
E	Pigtail Type	BF=Bare Fiber,0.9=0.9mm Tube
F	Package Size	1=Glass tube,2=Metal holder
G	Connector type	N=None, LC/UPC, LC/APC, SC/UPC,SC/APC, FC/UPC, FC/APC, etc
H	Fiber length	003=0.3m, 005=0.5m; 010=1.0m 100=10m etc
For example: PMCOLL -1550 - S - G -5 - BF - 1 - FC/APC - 010		