

# Multi-Mode Single Fiber Collimator

## Features:

- Low Insertion Loss
- High Return Loss
- Telcordia Compliant
- Compact Size
- Epoxy-Free in Optical Path
- RoHS Compliant



## Applications:

- Isolators
- Circulators
- Switches

## Specifications:

Parameter	Unit	Grade "A"					
Type		Standard Size			Mini Size		
Working Distance <sup>1</sup>	mm	<=30			<=20		
Central Wavelength ( $\lambda_c$ )	nm	850	850&1310	1310 or 1550	850	850&1310	1310 or 1550
Working Wavelength	nm	850+/-25	850+/-25 & 1310+/-40	1310+/-40 or 1550+/-40	850+/-25	850+/-25 & 1310+/-40	1310+/-40 or 1550+/-40
Insertion Loss <sup>2,3</sup> ( $\lambda_c$ , 23°C)	Typ. dB	0.30	0.40(@850nm) 0.50(@1310nm)	0.30	0.35	0.55(@850nm) 0.65(@1310nm)	0.35
	Max. dB	0.35	0.55(@850nm) 0.65(@1310nm)	0.35	0.40	0.60(@850nm) 0.75(@1310nm)	0.40
Housing Diameter (O.D.)	Typ. mm	2.80 (glass tube)			1.40, 1.80 (glass tube)		
		3.20 (metal tube)			1.30, 1.80 (metal tube)		
Housing Length (L)	Typ. mm	9.0			8.0		
Fiber Type		50/125/250 $\mu$ m bare fiber or 62.5/125/250 $\mu$ m bare fiber					
Fiber Length	Min. m	1.0					
Tensile Load	Min. N	5					
Power Handling	Max. mW	500					
Operating Temperature	°C	0~70					
Storage Temperature	°C	-40~85					

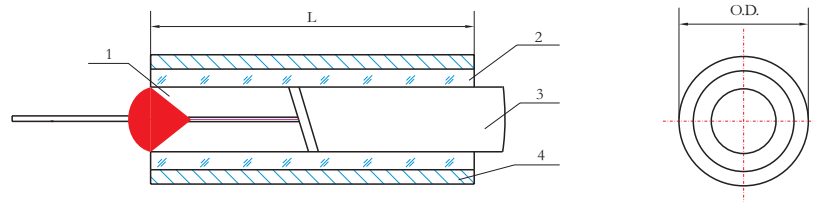
1. Working distance more than 30mm is also available .

2. Light source Coupling Power Ratio (CPR)=18~20dB, measured with a pair of collimators (CPR measurement setup please refer to Dual 1x2 (2x4) Switch specs).

3. All specs are measured without connectors, IL is 0.20dB higher with xx/APC connectors, RL 5dB lower with xx/APC connectors; IL 0.25dB higher with xx/UPC and xx/PC connectors, RL 10dB lower with xx/UPC and xx/PC connectors.

Note: Other specs are available upon request.

**Dimension:**



1. Fiber Pigtail    2. Glass Tube    3. Lens    4. Au-plated Stainless Steel Tube

Figure 1. Multi-Mode Single Fiber Collimator

**Order Information:**

XXXX - X - XXXXXXXX - XXXX - X - (XX) - XXX - X - XX  
 A    B    C    D    E    F    G    H    I

A	Collimator Tpye	KMMS=MM single fiber MMSC=Mini size MM single fiber
B	Grade	A=Grade "A" S=Custom
C	Fiber Type	050/125=50/125 bare fiber 062/125=62.5/125 bare fiber
D	Wavelength	0850=850nm 1310=1310nm 1550=1550nm
E	Tube	M=Metal G=Glass
F	Housing Diameter (Mini Size)	13=1.30mm 14=1.40mm 18=1.80mm
G	Working Distance	005=5mm 020=20mm
H	Lens Type	C=C-Lens
I	Connector	NN=W/O connector XY=With connector <sup>1</sup>

1. Please specify the type of connector as below when ordering.

Mechanical Type	Other	SC	FC	ST	MU	LC
X	0	1	2	3	4	5
Physical Contact Type	Other	PC	UPC	APC		
Y	0	1	2	3		