

Mini Size Single Mode Single Fiber Collimator

Features:

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



Applications:

- Mini Isolators
- Mini Circulators
- Matrix Switches

Specifications:

Parameter	Unit	Grade "A"			
Working Distance ¹	mm	<30	30~60	60~100	
Central Wavelength (λ_c)	nm	1310 or 1550			
Working Wavelength (23°C)	nm	1310+/-40 or 1550+/-40			
Insertion Loss ^{2,3} (λ_c , 23°C)	Typ.	dB	0.20	0.25	0.30
	Max.	dB	0.25	0.30	0.35
Return Loss (λ_c , 23°C)	Min.	dB	60	60	60
Pointing Accuracy	Max.	degree	1.0	1.0	1.0
Beam Waist (λ_c , 23°C, $1/e^2$)	Max.	mm	0.50	0.50	0.70
Housing Diameter (O.D.)	Typ.	mm	1.4, 1.8 (glass tube)		1.8 (glass tube)
			1.3, 1.8 (metal tube)		1.3 (metal tube)
Housing Length (L)	Typ.	mm	8.0		10
Fiber Type	250 μ m Corning SMF-28e bare fiber				
Fiber Length	Min.	m	1.5		
Tensile Load	Min.	N	5		
Power Handling	Max.	mW	500		
Operating Temperature			°C		
Storage Temperature			°C		

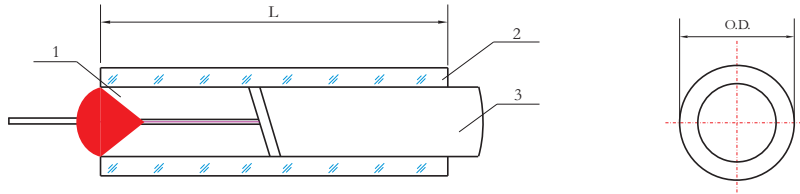
1. 100~150mm, 150~200mm is also available.

2. All specs are measured with a pair of collimators.

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. Metal/Glass Tube 3. Lens

Figure 1. Mini Size Single Mode Single Fiber Collimator

Order Information:

KMSC - X - XXXX - XXXX - X - XX - XXX - X - XX
 A B C D E F G H

A	Grade	A=Grade "A" S=Custom
B	Fiber Type	250S=250μm bare fiber 900L=900μm loose tube 900T=900μm tight buffer
C	Wavelength	1310=1310nm 1550=1550nm
D	Tube	M=Metal G=Glass
E	Housing Diameter	13=1.30mm 14=1.40mm 18=1.80mm
F	Working Distance	005=5mm 020=20mm 100=100mm
G	Lens Type	C=C-Lens
H	Connector	NN=W/O connector XY=With connector ¹

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		