

# Single/Dual/Multi Fiber Collimator

## PERFORMANCE SPECIFICATIONS

Parameter	Specifications					
	Single Fiber		Dual Fiber		Multi Fiber	
Operating Wavelength	1310±30nm, 1550±30nm, 1310/1550±30nm, or 980/1550±30nm					
Number of Fiber	Single Fiber		Dual Fiber		Multi Fiber	
Grade	P	A	P	A	P	A
Insertion Loss (dB)	0.17Typ. <sup>1)</sup> ≤0.20Max. <sup>2)</sup>	0.20Typ. <sup>1)</sup> ≤0.25Max. <sup>2)</sup>	0.20Typ. <sup>1)</sup> ≤0.28Max. <sup>2)</sup>	0.30Typ. <sup>1)</sup> ≤0.40Max. <sup>2)</sup>	0.40Typ. <sup>1)</sup> ≤0.40Max. <sup>2)</sup>	0.50Typ. <sup>1)</sup> ≤0.50Max. <sup>2)</sup>
Return Loss	≥ 65dB	≥ 60dB	≥ 65dB	≥ 60dB	≥ 65dB	≥ 60dB
Beam Diameter	≤ 0.45 (Φ1.8mm Lens) ≤ 0.35 (Φ1.0mm Lens)				≤ 0.50mm	
Operating Temperature	- 20 to +70°C					
Storage Temperature	- 40 to +80°C					
Package Dimensions	Φ1.8(OD) Lens (Standard):  A=4x10mm gold plated SS tube B=3.2x10mm gold plated SS tube C=2.4x10mm SS tube (gold plated optional) D=2.78x10mm Glass tube or custom size				Φ1.8(OD) Lens (Standard):  B=3.2x10 gold plated SS tube C=2.4x10 SS tube (gold plated optional) D=2.78x10 Glass tube or custom size	
	Φ1.0(OD) Lens (Min-size):  E=2.8x10mm SS tube (gold plated optional) F=2.0x7mm Glass tube G=1.4x6mm gold plated SS tube H=1.2x7mm Glass tube					

Note:

1) At 10mm working distance and single fiber wavelength. (Dual fiber wavelength IL will increase by 0.1 dB).

2) At < 1mm reflection working distance (RWD) and single fiber wavelength.

Return Loss for single mode collimator only.

## FEATURES

- Low Insertion loss
- Low Back Reflection
- High Environmental Stability
- Low Insertion loss
- Wide Operating Wavelength
- Compact Size
- Excellent Environmental
- Mechanical Stability

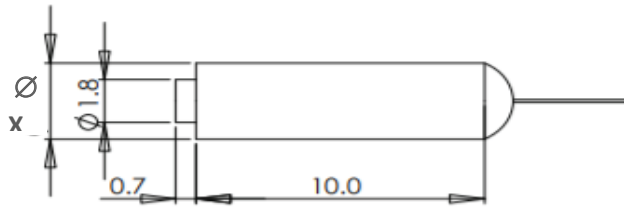
## APPLICATION

- Fiberoptic Lab Use
- Laser Beam Collimating
- Fiber to Fiber Coupling
- Local Area Networks
- CATV Systems
- Subscriber Loop
- Fiberoptic Instruments

## Single/Dual/Multi Fiber Collimator

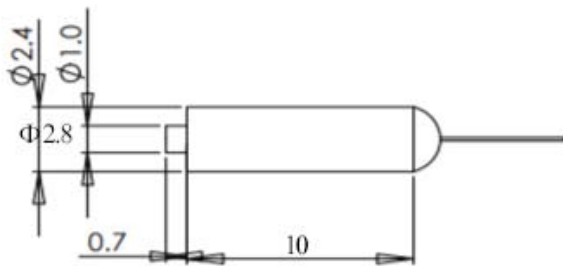
### MECHANICAL DIMENSIONS

Package A/B/C/D

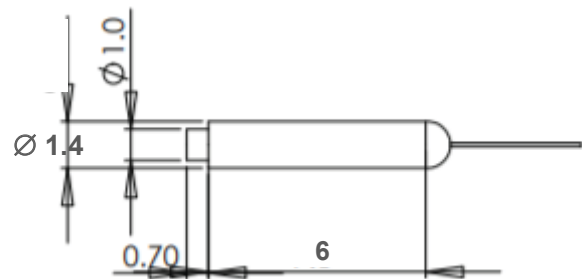


X=4.0/3.2/2.4/2.78mm

Package E



Package G



Package F/H



X=2.0/1.28mm

## Single/Dual/Multi Fiber Collimator

### ORDERING INFORMATION

CL	Number of fibers	Grade	Operating Wavelength	Working Distance (WD)	Package	Fiber Type	Pigtail Style	Fiber Length	Connector
1=One	P=P grade	1310=1310nm	01=1mm	A=4.0x10mm	1=SMF-28e	1=Bare fiber	05=0.5m	0 = None	
2=Two	A=A grade	1550=1550nm	02=2mm	B=3.2x10mm	2=SMF-28 Ultra	2=900um	10=1.0m	1 = FC/APC	
3=Three		3155=1310/1550nm	.	C=2.4x10mm	3=Corning ZBL fiber	loose tube	.	2 = FC/PC	
4=Four		9855=980/1550nm	.	D=2.78x10mm		3=3mm jacket	.	3 = SC/APC	
S=Custom			.	E=2.8x10mm		4=2mm jacket	.	4 = SC/PC	
			70=70MM	F=2.0x7mm		5=1.6mm jacket	50=5.0m	5 = ST	
				G=1.4x6mm		6=900um tight buffer		6 = LC/UPC	
				H=1.2x7mm				7 = LC/APC	