

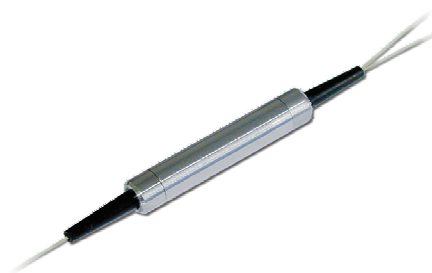
# Three-port Bare Channel Device

## Features:

- Low Insertion Loss
- High Channel Isolation
- Epoxy-Free in Optical Path
- Telcordia Compliant

## Applications:

- CWDM/DWDM System
- Add/Drop System
- Laboratory R&D
- CATV System



## Specifications<sup>1,2</sup>:

Parameter	Unit	CWDM <sup>3</sup>	100G	200G	
Central Wavelength ( $\lambda_c$ )	nm	1470,1490...1590,1610	1529.55~ 1560.61 ITU Grid		
Passband	Min. nm	ITU+/-6.5	ITU+/-0.11	ITU+/-0.25	
Isolation	Adjacent Add/Drop Channel	Min. dB	30	28	30
	Non-adjacent Add/Drop Channel	Min. dB	40	40	40
	Express Channel	Min. dB	12	12	12
Insertion Loss	Add/Drop Channel	Max. dB	0.7(Typ 0.6)	1.3(Typ 1.0)	0.9(Typ 0.8)
	Express Channel	Max. dB	0.4(Typ 0.3)	0.5(Typ 0.4)	0.5(Typ 0.4)
Ripple in Passband	Max. dB	0.3	0.5	0.35	
TDL	Max. dB	0.004	0.004	0.004	
Thermal Wavelength Drift	Max. dB	0.003	0.003	0.003	
Directivity	Min. dB	50	50	50	
Polarization Dependent Loss	Max. dB	0.1	0.1	0.1	
Polarization Mode Dispersion	Max. ps	0.1	0.1	0.1	
Return Loss	Min. dB	45	45	45	
Fiber Type	Corning SMF-28				
Fiber Length	Min. m	1.0			
Power Handling	Max. mW	500			
Operating Temperature	°C	0~70			
Storage Temperature	°C	- 40~85			
Package Dimension	mm	$(\phi)5.5 \times (L)32$ for 250 $\mu\text{m}$ fiber $(\phi)5.5 \times (L)39$ for 900 $\mu\text{m}$ fiber			

1. All specifications include the effect of operating temperature and all status of polarization.

2. Values referenced without connectors.

3. Central wavelength like 1471,1491...1611 is available upon request.

**Dimension:**

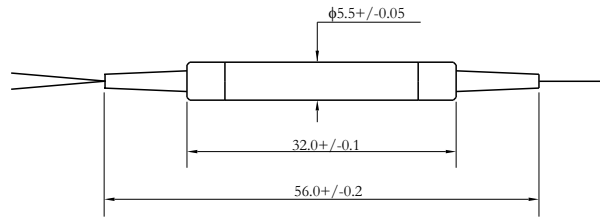


Figure 1. Package A for 250 μm fiber with SST

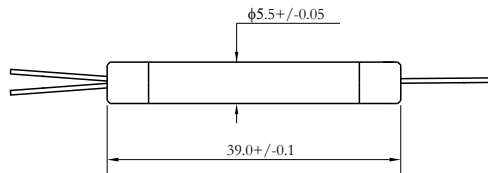


Figure 2. Package B for 900 μm fiber with SST

**Order Information:**

XXXX - XXX - X - XXXX - XXXX - XX  
 A B C D E F

A	Type	CWDM	CWDM
		KOAD	100G 200G
B	Channel Spacing	020=CWDM	
		100=100G	
		200=200G	
C	Grade	A=Grade "A"	
		S=Custom	
D	ITU Channel	CWDM	100G & 200G
		1470=λc 1470 nm	CH21=21st channel
		1610=λc 1610 nm	CH65=65th channel
E	Fiber Type	250S=250 μm bare fiber	
		900L=900 μm loose tube	
		900T=900 μm tight buffer fiber	
F	Connector	NN=W/O connector	
		XY=With connector <sup>1</sup>	

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

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