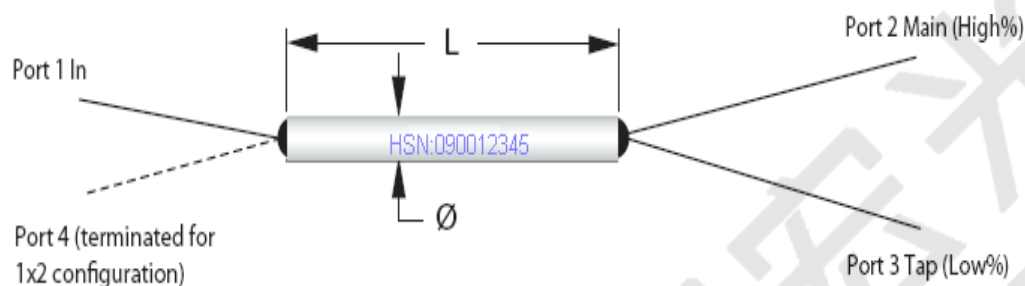


Polarization Maintaining Fused Coupler

Product Description

The HiPhotonics fusing technique and polarization maintaining fiber to build the polarization maintaining fiber coupler (PMC) The coupling ratio could be selected according to customer's request. It features low excess loss, small size and high polarization extinction ratio. PMC is widely used for optical sensors and optical gyr



Performance Specification

PMSWFC Series	Specifications	Unit
Wavelength Range	850±15 or 980±15 or 1310or1550±20	nm
Fiber Type	SMF-28 or PM Panda fiber for tap port PM Panda fiber for input & output ports	
Insertion Loss	See Insertion Loss Table	dB
ER(CR>5%)	22	dB
Return Loss (Min)	55	dB
TDL (Max)	Signal Path:<0.10dB, Tap path:<0.15dB	dB
Maximum Power Handling	500	mW
Operating Temperature Range	-40 ~ +75	℃
Storage Temperature Range	-40 ~+ 85	℃
Package Dimensions	P1:250um bare fiber Ø 3.0X 45	mm
	P2:900nm loose tube Ø 3.0X 54	
	P3:3mm cable L90xW20xH10	
Qualifications	Telcordia GR-1221	

Features:

- Wavelength Independent
- Low Insertion Loss and PDL
- High Power Handling
- Guaranteed Reliability

Applications:

- Signal monitoring in EDFA
- Network Monitoring
- CATV
- Local Area Networks
- Testing Instruments
- Laboratory R&D

Note:

- (1) Values are referenced without connector loss.
- (2) Temperature Sensitivity Coefficient~ 0.002℃ at the range of -5to75℃
- (3) Operating temperature range changes to -5 to 75℃in P2,P3 package and all package with connectors
- (4) The mechanical tolerance should be±0.2mm on all package dimensions unless otherwise custom specified

Coupling Ratio	P Grade				A Grade			
	IL (dB)		PDL (dB)		IL (dB)		PDL (dB)	
	Signal	Tap	Signal	Tap	Signal	Tap	Signal	Tap
99/1	≤0.4	19.2~22	≤0.1	≤0.15	≤0.5	19.2~22.5	≤0.1	≤0.15
95/5	≤0.8	13.2~15.0	≤0.1	≤0.10	≤1.1	13.2~15.5	≤0.1	≤0.10
90/10	≤1.0	9.40~11.0	≤0.15	≤0.10	≤1.3	9.40~11.5	≤0.15	≤0.10
80/20	≤1.6	6.30~7.80	≤0.15	≤0.10	≤1.5	6.30~7.90	≤0.15	≤0.10
50/50	2.90~3.50		≤0.15		2.90~3.70		≤0.20	

1. Insertion loss over operating wavelength range at ~23℃ (excluding PDL and TDL).
2. Insertion loss change over the all input polarization states.
3. For device with connector, key aligned to slow axis

Order Information PMSWFC-①①-②②-③③-④-⑤-⑥-⑦

①①Operating Wavelength	②Port	③Coupling Ratio	④Grade	⑤Packaging Dimension
13=1310nm	12=1X2	01=01/99	P=P Grade	A=P1+250um bare fiber
15=1550nm	22=2X2	05=05/99	A=A Grade	B=P2+900um loose tube
13=1310nm		10=10/90		S=Special
78=780nm		20=20/80		
85=850nm		30=30/70		
98=980nm		40=40/60		
10=1060nm		50=50/50		
		S=Special		

⑥Fiber Length

A=0.5 Meter
B=1 Meter
C=1.5 Meter
D=2.0 Meter

S=Special

⑦Connector Type

0=None
1=FC/UPC
2=FC/APC
3=SC/UPC
4=SC/APC
5=LC
S=Special