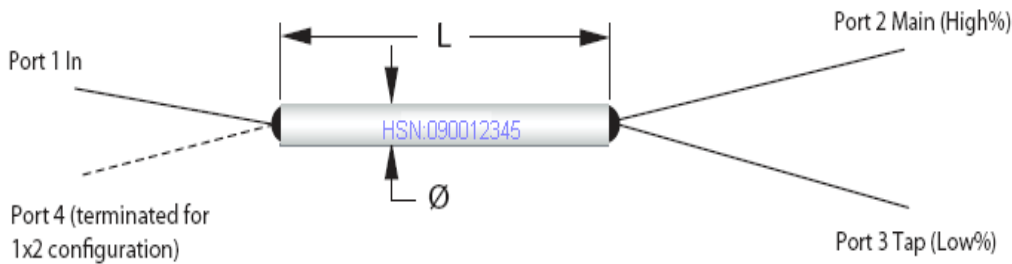


Polarization Maintaining Fused Coupler

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 repues .It features low excess loss,small size and high polarization extinction ratio.PMC is widely used for optical sensors and optical gyro.



Performance Specification

SSWFC Series	Specifications	Unit
Wavelength Range	850±15 or 980±15 or 1310or1550±20	nm
Fiber Type	PM fiber model	
Insertion Loss	See Insertion Loss Table	dB
ER(Min)	20	dB
Return Loss(Min)	55	dB
TDL (Max)	Signal Path:<0.10dB, Tap path:<0.15dB	dB
Maximum Power Handling	500	mW
Operating Temperture Range	~ 40 ~ +75	℃
Storage Temperature Range	~ 40 ~+ 85	℃
Package Dimensions	P1:250um bare fiber ϕ 3.0X 45	mm
	P2:900nm loose tube ϕ 3.0X 54	
	P3:3mm cable L90xW20xH10	
Qualifications	Telcordia GR-1221	

Features :

- Wavelength Independent
- Low Insertion Loss and PDL
- High Power Handling
- Guranteed 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°C in P2,P3 package and all package with connectors
 (4) The mechanical tolerance should be ± 0.2 mm 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	≤ 0.6	19.2~22	≤ 0.1	≤ 0.15	≤ 0.7	19.2~22.5	≤ 0.1	≤ 0.15
95/5	≤ 1.2	13.2~15.0	≤ 0.1	≤ 0.10	≤ 1.3	13.2~15.5	≤ 0.1	≤ 0.10
90/10	≤ 1.4	9.40~11.0	≤ 0.15	≤ 0.10	≤ 1.5	9.40~11.5	≤ 0.15	≤ 0.10
80/20	≤ 1.8	6.30~7.80	≤ 0.15	≤ 0.10	≤ 1.95	6.30~7.90	≤ 0.15	≤ 0.10
50/50	2.90~3.80		≤ 0.15		2.90~3.90		≤ 0.20	

1. Insertion loss over operating wavelength range at $\sim 23^\circ\text{C}$ (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 SDWFC-①①-②②-③③-④④-⑤⑤-⑥⑥-⑦⑦

①① Operating Wavelength	② Port	③ Coupling Ratio	④ Grade	⑤ Packaging 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
78=780nm		10=10/90		C=P3+3mm cable
85=850nm		20=20/80		
98=980nm		30=30/70		
10=1060nm		40=40/60		
		50=50/50		
		S=Special		

⑥ Fiber Length

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

S=Special

⑦ Connector Type

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