

DUAL WINDOW SINGLE MODE WIDEBAND FIBER COUPLER (1310NM AND 1510NM BAND)

Product Description

The HiPhotonics fused dual window wideband fiber 1X4 couplers provide accurate optical signal coupling and splitting over wide bandwidth with high performance and high reliability. These couplers have excellent uniformity, low excess loss and very low polarization sensitivity and are available with various tap ratios, fiber types and connector options. All devices are shown to be able to handle high optical power up to **1W** and are tested according to industry standard procedures. Reliability is guaranteed through stringent tests to fully meet.

Telcordia GR-1221 requirements



Performance Specification

SDWFC4 Series	Specifications	Unit
Wavelength Range	1310±40 and 1550±40	nm
Fiber Type	Corning SMF-28 Ultra	
Insertion Loss	Premium Grade A	
	≤ 7.1 ≤ 7.5	dB
Directivity (Min)	55	dB
Return Loss (Min)	55	dB
TDL (Max)	Signal Path:<0.20dB, Tap path:<0.25dB	dB
Maximum Power Handling	500	mW
Operating Temperature Range	-20 ~ +75	℃
Storage Temperature Range	-40 ~ + 85	℃
Package Dimensions	P1:250um bare fiber ϕ 3.0X 54	mm
	P2:900nm loose tube ϕ 4.0X 65	
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.

Temperature Sensitivity Coefficient~ 0.002℃ at the range of-5to75℃

(2) Operating temperature range changes to -5 to 75℃in P2 P3 package and all package with connectors

(3) The mechanical tolerance should be±0.2mm on all package dimensions unless otherwise custom specified

1. Insertion loss over operating wavelength range at ~23℃ (excluding PDL and TDL).

2. Insertion loss change over the all input polarization states.

Order Information SDWFC4-①-②-③-④-⑤-⑥-⑦

①Operating Wavelength

35=1310/1550nm

S=Special

②Port

3=1X3

4=1X4

③Coupling Ratio

A

④Grade

P=P Grade

A=A Grade

⑤Packaging Dimension

A=P1+250um bare fiber

B=P2+900um loose tube

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