

Fused 980nm/1550nm Pump/Signal WDM Coupler Product Information

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POFC provides low insertion loss < 0.1dB and high isolation for combining 980nm pump and signal light in the C band or L band EDFA Systems.



APPLICATIONS

DFA pump/signal multiplexing
980 nm pump rejection

FEATURES

Low Signal Insertion loss
Low Pump Insertion loss High Isolation
Provide for both C band & L band
Low wavelength dependence
Good uniformity
Low PDL
Environmental stable & reliable

PERFORMANCE SPECIFICATIONS

Grade Code		Ultra	Premium	Standard
Pump Path	Bandwidth	980 ±10 nm		
	Return Loss	≥ 50 dB		
	Insertion Loss	≤ 0.1 dB	≤ 0.3 dB	≤ 0.4 dB
Signal Path	Bandwidth	1525~1565nm (C band) or 1570~1610nm (L band)		
	Return Loss	≥ 55 dB		
	Insertion Loss	≤ 0.2 dB	≤ 0.3 dB	≤ 0.4 dB
	Isolation	≥ 20 dB	≥ 19 dB	≥ 18 dB
	PDL	≤ 0.10 dB	≤ 0.10 dB	≤ 0.15 dB
Directivity		≥ 55 dB		
Operating Temperature		-40°C to +85°C		
Storage Temperature		-40°C to +85°C		
Thermal Stability		≤ 0.25 dB		
Fiber Type		245µm ± 10 m POFC SMF 980 A		
Package Dimension (mm)		250µm Fiber: 3.0(OD) × 60 (L)		
Pigtail Length		≥ 1 m		

Prime Optical Fiber Corporation

No.11, Ke Jung Rd.
Science-Based Industrial Park
Chu-Nan, 350, Miao-Li County, Taiwan, R.O.C.
Tel: 886-37-586999 Fax: 886-37-586899
E-mail: sales@pofc.com.tw



Qualification and Reliability Test

<i>Type of Test</i>	<i>Conditions</i>	<i>Duration</i>
Damp Heat	75°C and 90 % RH	2000 hours
High Temperature Storage (Dry Heat)	85°C and 30 % RH	2000 hours
Low Temperature Storage	-40°C	2000 hours
Water Immersion	43±2°C, PH 5.5±0.5	168 hours
Impact	1.8 meter high	8 drops

Ordering Information

<i>Grade Code</i>	<i>Ultra, Premium or Standard</i>
Signal Band	C band or L band
Port Configuration	1×2 or 2×2
Pigtail Length	1m, 2m, 3m, 1.5m, 2.5m
Connector Type	None, SC, FC, ST
Pigtail Style	250µm fiber, 900µm loose tube or 3.0mm cabled fiber
Package	3.0mmOD)× 60mm (L) or 3.0mmOD)× 54mm

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