

Fused 980nm Pump Band Tap Coupler Product Information

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POFC's 980 nm Fused Biconic Pump Band Tap Couplers ensure consistent quality, reliability and high performance, that provide a solution to splitting or monitoring pump power in the Erbium-Doped Fiber Amplifiers (EDFAs) system.



APPLICATIONS

EDFA signal monitoring
Network monitoring

FEATURES

Low Signal Insertion loss
Flat wavelength dependence across the erbium gain spectrum
Provide for both C band & L band
Low PDL
Good uniformity
Environmental stable & reliable

PERFORMANCE SPECIFICATIONS

Signal Channel Range		1525~1565nm (C band) or 1570~1610nm (L band)	
Pump Channel Range		980 ± 10 nm	
Insertion Loss	Coupling Ratio	Premium	Standard
	50/50	3.3/3.3 dB	3.6/3.6 dB
	5/95	14.0/0.4 dB	14.5/0.5 dB
	2/98	18.2/0.25 dB	19.0/0.35 dB
	1/99	21.5/0.2 dB	23.0/0.3 dB
Directivity		> 50 dB	
Return Loss		> 50 dB	
Polarization Dependent Loss (PDL)		≤ 0.15 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		245µm Fiber: 3.0 (OD) × 60 (L) mm	
Pigtail Length		≥ 1 m	

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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>Premium or Standard</i>
Signal Band	C band or L band
Coupling Ratio	1/99, 2/98, 5/95 or 50/50
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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