

Single Mode Filter Coupler



Description

A filter coupler is a passive fiber optic component that uses thin-film filter technology to split or combine optical power at a specified coupling ratio within a defined wavelength range.

Features

Low Insertion Loss
High Stability and Reliability
Compact Size

Applications

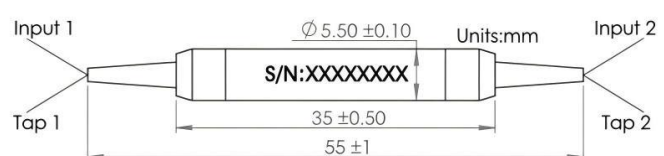
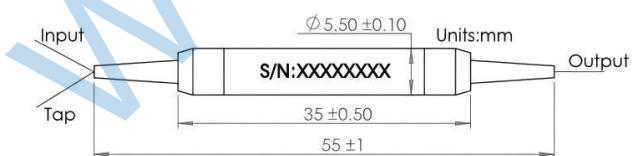
Mobile Fiber Network
MAN
Bi-Directional Communication

Specifications

Parameter		Unit	Value		
Ports (In x Out)		-	1x2/2x2		
Center Wavelength		nm	1310	1550	1310/1550
Operating Wavelength Range		nm	±40		
Insertion Loss	50/50	dB	≤3.9/3.9		
	10/90	dB	≤11.3/1.1		
	5/95	dB	≤14.5/0.9		
Return Loss		dB	≥50		
Polarization Dependent Loss		dB	≤0.15		
Directivity		dB	≥50		
Max Optical Power (CW)		W	0.5		
Fiber Type		-	SMF-28e		
Package Dimensions		mm	Φ5.5 x L35		
Operating Temperature		°C	-10 to +70		
Storage Temperature		°C	-40 to +85		

Notes: Tested at 25 °C. Data exclude connectors; adding connectors increases insertion loss by 0.3 dB and reduces return loss by 5 dB.

Product Dimensions



Ordering Information

	 nm		 W		 m	 μm	
Ports (In x Out)	Center Wavelength	Split/Coupling Ratios	Max Optical Power (CW)	Fiber Type	Pigtail Length	Pigtail Diameter	Connector
1x2	1310nm	50/50	0.5W	SMF-28e	0.5m	250μm Bare Fiber	None
2x2	1550nm	40/60			1.0m	900μm Loose Tube	LC/UPC
	1310/1550nm	30/70			1.5m		LC/APC
		20/80			2.0m		SC/UPC
		10/90					SC/APC
		5/95					FC/UPC
		Custom					FC/APC
							ST/UPC
							ST/APC