

Multimode 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

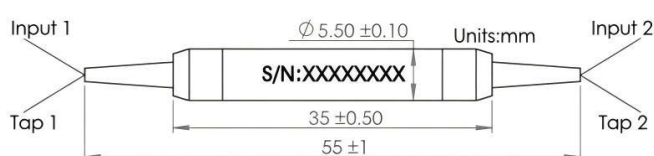
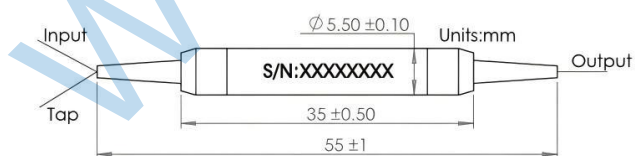
- Mobile Fiber Network
- MAN
- Bi-Directional Communication

Specifications

Parameter		Unit	Value	
Ports (In x Out)		-	1x2/2x2	
Center Wavelength		nm	850	1300
Operating Wavelength Range		nm	±40	
Insertion Loss	50/50	dB	≤3.9/3.9	
	10/90	dB	≤11.5/1.2	
	5/95	dB	≤14.5/0.9	
Return Loss		dB	≥35	
Polarization Dependent Loss		dB	≤0.15	
Directivity		dB	≥30	
Max Optical Power (CW)		W	0.5	
Fiber Type		-	OM1/OM2/OM3/OM4	
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	850nm	50/50	0.5W	OM1	0.5m	250μm Bare Fiber	None
2x2	1300nm	40/60		OM2	1.0m	900μm Loose Tube	LC/UPC
		30/70		OM3	1.5m		LC/APC
		20/80		OM4	2.0m		SC/UPC
		10/90					SC/APC
		5/95					FC/UPC
		Custom					FC/APC
							ST/UPC
							ST/APC