

1590nm 1x2 2x2 SM Fiber Filter Coupler

1590nm 1x2, 2x2 SM Filter Coupler is built with thin-film filter technology. optical signal power can be splitted into two parts with even or various coupling ratio by the Filter Coupler, it's widely applied in fiber optic transmission and fiber optic sensor field, the high power type is available upon request.

Application:

Optical Signal Transmission
Fiber Optic Sensor
Fiber Laser
Optical Diffraction System

Features:

Low Excess Loss
High Return Loss
Low Insertion Loss
High Reliability



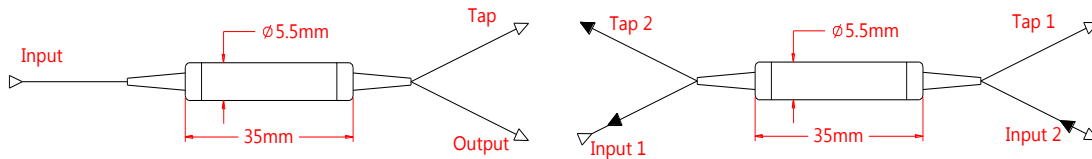
Specification:

Parameter	Symbol	Value		Unit
Center Wavelength	λ	1590		nm
Bandwidth	BW	± 40		nm
Configuration		1x2	2x2	dB
Max. Excess Loss	EL	0.8	1.0	dB
Tap Ratio		1 \pm 0.2, 2 \pm 0.4, 3 \pm 0.7, 5 \pm 1, 10, 20, 30, 50		%
Max. Polarization Dependent Loss	PDL	0.15		dB
Min. Directivity		50		dB
Min. Return Loss	RL	50		dB
Fiber Type		SMF-28e fiber		-
Max. Tensile Load		5		N
Max. Optical Power (CW)	P	500		mW
Operating Temperature	T	0~70		°C
Storage Temperature	T	-40~85		°C
Package Dimension		$\Phi 5.5 \times L35$		mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23°C.

For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower.

Drawing:



Ordering Information (Part Number):

SMFIC-**WWW**-**PP**-**RR**-**FF**-**J**-**LL**-**CC**

WWW	PP	RR	FF	J	LL	CC
Wavelength	Port	Coupling Ratio	Fiber Type	Fiber Jacket	Fiber Length	Connector
1310 - 1310nm	12 - 1x2	01 - 1/99	S2 - SMF-28e	B - 250um Bare Fiber	05 - 0.5m	NE - None
1480 - 1480nm	22 - 2x2	02 - 2/98	SS - Specify	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1550 - 1550nm		03 - 3/97			15 - 1.5m	FU - FC/UPC
1570 - 1570nm		05 - 5/95			20 - 2.0m	SA - SC/APC
1590 - 1590nm		10 - 10/90			SS - Specify	SU - SU/APC
1625 - 1625nm		20 - 20/80				LA - LC/APC
		30 - 30/70				LU - LC/UPC
		40 - 40/60				SS - Specify
		50 - 50/50				
		SS - Specify				