

810nm 1x2 2x2 SM Fiber Filter Coupler

810nm 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



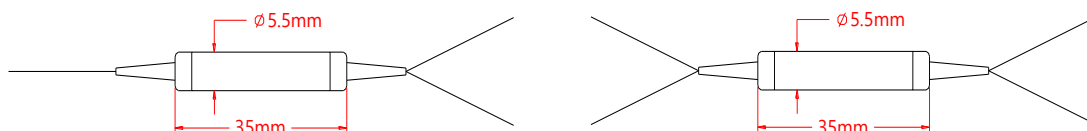
Specification:

Parameter	Symbol	Value		Unit
Center Wavelength	λ	810		nm
Bandwidth	BW	± 20		nm
Configuration		1x2	2x2	-
Max. Excess Loss	EL	1.0	1.2	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
Max. Optical Power (CW)	P	500		mW
Max. Tensile Load		5		N
Fiber Type		HI 780 fiber		-
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 - J - LL - CC					
WWW	PP	RR	J	LL	CC
Wavelength	Port	Coupling Ratio	Fiber Jacket	Fiber Length	Connector
800 - 800nm	12 - 1x2	01 - 1/99	B - 250um Bare Fiber	05 - 0.5m	NE - None
808 - 808nm	22 - 2x2	02 - 2/98	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
810 - 810nm		03 - 3/97		15 - 1.5m	FU - FC/UPC
820 - 820nm		05 - 5/95		20 - 2.0m	SA - SC/APC
830 - 830nm		10 - 10/90		SS - Specify	SU - SU/APC
850 - 850nm		20 - 20/80			LA - LC/APC
SSS - Specify		30 - 30/70			LU - LC/UPC
		40 - 40/60			SS - Specify
		50 - 50/50			
		SS - Specify			