

## 1950nm SM Tap+Isolator Hybrid

1950nm SM Tap+Isolator Hybrid is a fiber passive component which integrated with the function of Tap Filter Coupler and Optical Isolator, Tap Coupler can separate the signal power for monitoring, Optical Isolator for avoiding the backward reflection light, It's widely used in EDFA and Fiber Amplifier application, higher power type is available upon request.

### Application:

Fiber Laser  
EDFA  
Raman Amplifier  
Lab And Research

### Features:

Compact Package  
High Isolation  
Low Insertion Loss  
High Reliability



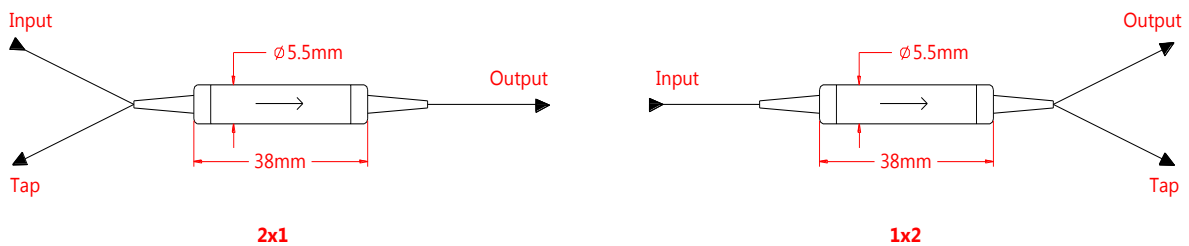
### Specification:

Parameter	Symbol	Value		Unit
Center Wavelength	$\lambda$	1950		nm
Bandwidth	BW	$\pm 10$		nm
Isolator Stage		Single Stage	Dual Stage	-
Typ. Peak Isolation	Iso	22	32	dB
Min. Isolation	Iso	18	28	dB
Max. Excess Loss	EL	1.3	1.5	dB
Max. Polarization Dependent Loss	PDL	0.1	0.15	dB
Max. Wavelength Dependent Loss	WDL	0.3	0.3	dB
Max. Polarization Mode Dispersion	PMD	0.25	0.05	ps
Tap Ratio		1 $\pm$ 0.2, 2 $\pm$ 0.4, 5 $\pm$ 1, 10 $\pm$ 2		%
Min. Return Loss	RL	50		dB
Min. Directivity		55		dB
Max. Optical Power (CW)	P	300		mW
Max. Tensile Load		5		N
Fiber Type		SM1950 fiber on all port		-
Operating Temperature	T	0~70		$^{\circ}$ C
Storage Temperature	T	-40~85		$^{\circ}$ C
Package Dimension		$\Phi 5.5 \times L38$		mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23 $^{\circ}$ C.

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

### Drawing:



### Ordering Information (Part Number):

SMTI- <b>WWWW</b> - <b>CC</b> - <b>S</b> - <b>TT</b> - <b>J</b> - <b>LL</b> - <b>CC</b>						
<b>WWWW</b>	<b>CC</b>	<b>S</b>	<b>TT</b>	<b>J</b>	<b>LL</b>	<b>CC</b>
Wavelength	Configuration	Stage	Tap Ratio	Fiber Jacket	Fiber Length	Connector
1940 - 1940nm	21 - 2x1	S - Single Stage	01 - 1%	B - 250um Bare Fiber	05 - 0.5m	NE - None
1950 - 1950nm	12 - 1x2	D - Dual Stage	02 - 2%	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
2000 - 2000nm			03 - 3%		15 - 1.5m	FU - FC/UPC
2050 - 2050nm			05 - 5%		20 - 2.0m	SA - SC/APC
			10 - 10%		SS - Specify	SU - SU/APC
			SS - Specify			LA - LC/APC
						LU - LC/UPC
						SS - Specify