

High Power 1480/1590nm SM Tap+Isolator+WDM Hybrid

High Power 1480/1590nm SM Tap+Isolator+WDM Hybrid is a fiber passive component which integrated with the function of Tap Filter Coupler, Optical Isolator and WDM, Tap Coupler can separate the signal power for monitoring, Optical Isolator for avoiding the backward reflection light, WDM can combine pump light and signal 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



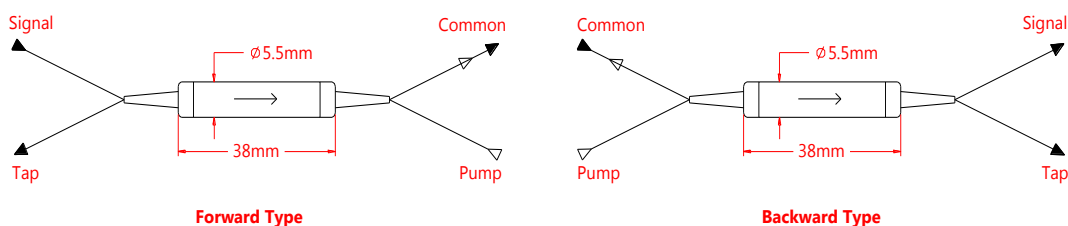
Specification:

Parameter		Symbol	Value		Unit	
Signal Wavelength		λ	1590 (1570-1605)		nm	
Pump Wavelength		λ	1480 (1450-1490)		nm	
Isolator Stage			Single Stage	Dual Stage	-	
Min. Isolation @Signal (Com to Signal Port), all SOP		Iso	28	45	dB	
Min. Wavelength Isolation	Signal Channel @Pump for Signal→Com	Iso	30		dB	
	Pump Channel @Signal for Pump→Com	Iso	15		dB	
Max. Insertion Loss	Signal Channel EL for Signal→Com	EL	1.4		dB	
	Pump Channel for Pump→Com	IL	0.6		dB	
	Tap Channel for Signal→Tap	1%	IL	19.2-23.0		dB
		2%	IL	16.2-18.5		dB
5%		IL	12.2-14.5		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	
Min. Return Loss		RL	50		dB	
Min. Directivity			55		dB	
Max. Optical Power (CW)		P	0.5, 1, 3, 5 or customized		W	
Max. Tensile Load			5		N	
Fiber Type			SMF-28e fiber on all port		-	
Operating Temperature		T	0~70		°C	
Storage Temperature		T	-40~85		°C	
Package Dimension			$\Phi 5.5 \times L38$		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. Connectors only 1W CW guarantee.

Drawing:



Ordering Information (Part Number):

HSTIW-WWWW-P-S-TT-HH-J-LL-CC							
WWW	P	S	TT	HH	J	LL	CC
Wavelength	Pump Type	Stage	Tap Ratio	Handling Power	Fiber Jacket	Fiber Length	Connector
4859 - 1480nm Pump, 1590nm Signal	F - Forward Pump B - Backward Pump	S - Single Stage D - Dual Stage	01 - 1% 02 - 2% 03 - 3% 05 - 5% 10 - 10% SS - Specify	Z5 - 0.5W 01 - 1W 03 - 3W 05 - 5W SS - Specify	B - 250um Bare Fiber 9 - 900um Loose Tube	05 - 0.5m 10 - 1.0m 15 - 1.5m 20 - 2.0m SS - Specify	NE - None FA - FC/APC FU - FC/UPC SA - SC/APC SU - SU/APC LA - LC/APC LU - LC/UPC SS - Specify