

1590 980nm High Power PM Tap Isolator WDM Hybrid

1590 980nm High Power PM 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

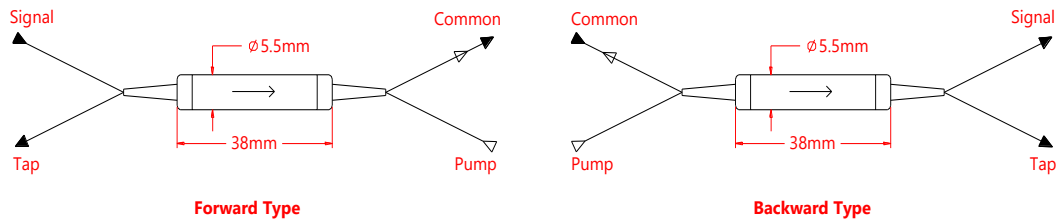


Specification:

Parameter			Symbol	Value		Unit
Signal Wavelength			λ	1590 (1530-1605)		nm
Pump Wavelength			λ	980 (965-1000)		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	25		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
Min. Extinction Ratio		for Fast Axis Blocked		ER	22	dB
		for Both Axes Working		ER	20	dB
Min. Return Loss			RL	50		dB
Min. Directivity				50		dB
Max. Optical Power (CW)			P	0.5, 1, 3, 5 or customized		W
Max. Tensile Load				5		N
Fiber Type				PM 1550 fiber for Com and Signal, SMF-28e or PM 1550 fiber for Tap, HI 1060 or PM 980 fiber for Pump, or customized		-
Operating Temperature			T	0~70		℃
Storage Temperature			T	-40~85		℃
Package Dimension				Φ5.5×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, ER will be 2dB lower, RL will be 5dB lower.
Slow axis is default aligned to the connector key. Connectors only 1W CW optical power guarantee.

Drawing:



Ordering Information (Part Number):

HPTIW-WWWW-P-S-TT-A-HH-FF-J-LL-CC									
WWW	P	S	TT	A	HH	FF	J	LL	CC
Wavelength (Signal/Pump)	Pump Type	Stage	Tap Ratio	Working Axis	Handling Power	Fiber Type on Pump Port	Fiber Jacket	Fiber Length	Connector
5598 - 1550/980nm	F - Forward Pump	S - Single Stage	01 - 1%	F - Fast Axis Blocked	Z5 - 0.5W	H1 - HI 1060	B - 250um Bare Fiber	05 - 0.5m	NE - None
5698 - 1560/980nm		D - Dual Stage	02 - 2%		01 - 1W	P9 - PM 980		10 - 1.0m	FA - FC/APC
5798 - 1570/980nm	B - Backward Pump		03 - 3%	B - Both Axes Working	03 - 3W	SS - Specify	9 - 900um Loose Tube	15 - 1.5m	FU - FC/UPC
5898 - 1580/980nm			05 - 5%		05 - 5W			20 - 2.0m	SS - Specify
5998 - 1590/980nm			10 - 10%		SS - Specify			SS - Specify	
SSSS - Specify			SS - Specify						