

1590 1480nm High Power PM Tap Isolator WDM Hybrid

1590 1480nm 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:

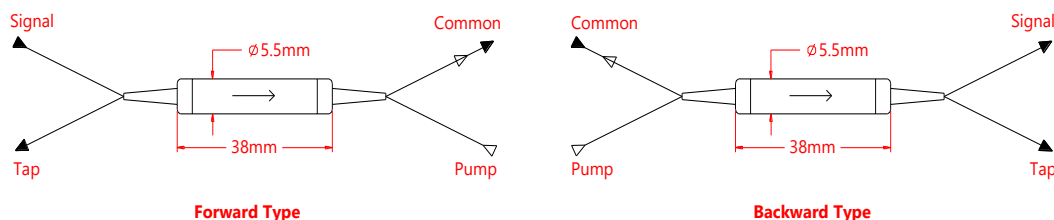
Parameter		Symbol	Value		Unit
Signal Wavelength		λ	1590 (1530-1605)		nm
Pump Wavelength		λ	1480 (1460-1490)		nm
Isolator Stage			Single Stage	Dual Stage	-
Min. Isolation @Signal (Com to Signal Port), all SOP		Iso	28	45	dB
Min. Wavelength Isolation	Signal Channel @Pump for Signal→Com	Iso	25		dB
	Pump 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%	19.2-23.0		dB
		2%	16.2-18.5		dB
		5%	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, SMF-28e or PM 1550 fiber for Pump, or customized		-
Operating Temperature		T	0~70		°C
Storage Temperature		T	-40~85		°C
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
5548 - 1550/1480nm	F - Forward	S - Single Stage	01 - 1%	F - Fast Axis	Z5 - 0.5W	S2 - SMF-28e	B - 250um Bare	05 - 0.5m	NE - None
5648 - 1560/1480nm	Pump	D - Dual Stage	02 - 2%	Blocked	01 - 1W	P5 - PM 1550	Fiber	10 - 1.0m	FA - FC/APC
5748 - 1570/1480nm	B - Backward		03 - 3%	B - Both Axes	03 - 3W	SS - Specify	9 - 900um Loose	15 - 1.5m	FU - FC/UPC
5848 - 1580/1480nm	Pump		05 - 5%	Working	05 - 5W		Tube	20 - 2.0m	SS - Specify
5948 - 1590/1480nm			10 - 10%		SS - Specify			SS - Specify	
SSSS - Specify			SS - Specify						