

Tap/Isolator/Filter Wavelength Division Multiplexer Hybrid
(TIWDM Series)

The TIWDM series combines Filter WDM, Tap Coupler and isolator into a compact package. This device is ideal for fiber amplifier application to provide input signal power monitoring, pump/signal multiplexing and isolation functions at the same time. The device offers the advantages of cost saving, space saving, as well as performance Improvement.

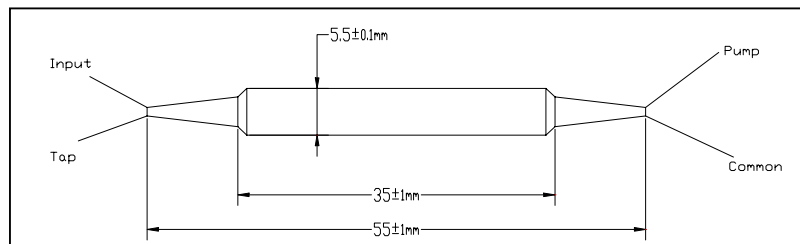
➤ Specifications

Parameters		Unit	Single Stage	Dual Stage	
Pass Band	Signal Wavelength Range	nm	1530-1580		
	Max. Insertion Loss@I→C (@980 Pump)	T for 1%,2%,3%	dB	1.0	1.2
		T for 4%,5%	dB	1.2	1.4
		T for 10%	dB	1.5	1.7
	Max. Insertion Loss@I→C (@1480 Pump)	T for 1%,2%,3%	dB	1.0	1.2
		T for 4%,5%	dB	1.1	1.3
		T for 10%	dB	1.3	1.5
Min.Signal Isolation at room temp(1550±15nm for Single Stage,1550±30nm for Dual Stage)		dB	30	40	
Max. PDL		dB	0.1	0.2	
Max. PMD		ps	0.25 ¹	0.05	
Reflection Band	Wavelength Range	980 Pump	950-1010		
		1480 Pump	1450-1490		
	Typ.Insertion Loss@C→P		dB	0.3	
	Max.Insertion Loss@C→P		dB	0.5	
Max. PDL		dB	0.05		
Tap Port I→T	Max.Insertion Loss@I→T for 10%	dB	11.5	11.5	
	Tap Ratio	%	1±0.2,2±0.4,3±0.6,4±0.8,5±1		
Min. Return Loss		dB	50		
Max .Optical Power		mW	300		
Max. Tensile Load		N	5		
Operating Temperature			-5 to +70		
Storage Temperature			-40 to +85		

Low PMD version is available. PMD<0.05ps

*Above specifications are without connector. For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower.

➤ Package Dimensions



➤ Ordering Information

TIWDM- - - - -

Pump Type	Stage Type	Tap Ratio	PMD	Connector Type	Fiber Type
98 - 980nm pump	1 - Single Stage	1 - 1%+/-0.2	1 - 0.05ps max.	N - None	B - 250um Bare Fiber
48 - 1480nm pump	2 - Dual Stage	2 - 2%+/-0.4	2 - Refer to above spec	S - Specify	L - 900um loose tube
		3 - 3%+/-0.6			S - Specify
		4 - 4%+/-0.8			
		5 - 5%+/-1.0			
Fiber Length		S-Specify			
Q - 1.0 m					
S - Specify					

* SMF-28 is used for Pass Port and HI 1060 is used for Reflect and Common Port.