



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

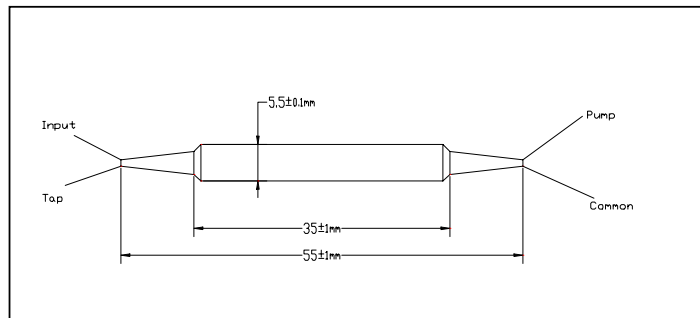
Parameters	Unit	Single Stage	Dual Stage
Pass Band	Signal Wavelength Range	1530-1580	
980 Pump	Max.Insersion Loss@I→C T for 1%,2%,3% for 4%,5% for 10%	1.0	1.2
		1.2	1.4
		1.5	1.7
1480 Pump	Max.Insersion Loss@I→C T for 1%,2%,3% for 4%,5% for 10%	1.0	1.2
		1.1	1.3
		1.3	1.5
	Min.Signal Isolation at room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

¹ Low PMD version is available. PMD<0.05ps

*Above specifications does not include connector loss.

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

Package Dimensions



Ordering Information

TIWDM-①-②-③-④-⑤-⑥-⑦

①: Pump Type
98 - 980nm pump
48 - 1480nm pump

④: PMD
1 - 0.05ps max.
2 - Refer to above spec.

⑥: Fiber Type
B - 250um bare fiber
L - 900um loose tube
S - Specify

②: Stage Type
1 - Single Stage
2 - Dual Stage

⑤: Connector Type
1 - FC/UPC
2 - FC/APC
3 - SC/UPC
4 - SC/APC
5 - LC/UPC
6 - ST/UPC
N - None
S - Specify

⑦: Fiber Length
1 - 1.0 m
S - Specify

③: Tap Ratio
1 - 1%+/-0.2
2 - 2%+/-0.4
3 - 3%+/-0.6
4 - 4%+/-0.8
5 - 5%+/-1.0
S-Specify

* SMF-28 is used for 1550nm and 1480nm interface and HI 1060 is used for Pump and Common channel