

Tap/Isolator/Wavelength Division Multiplexer Hybrid 980/1550 (TIWDM)

Model #: TIWDM

Description: 980/1550 nm tap/isolator/WDM hybrids

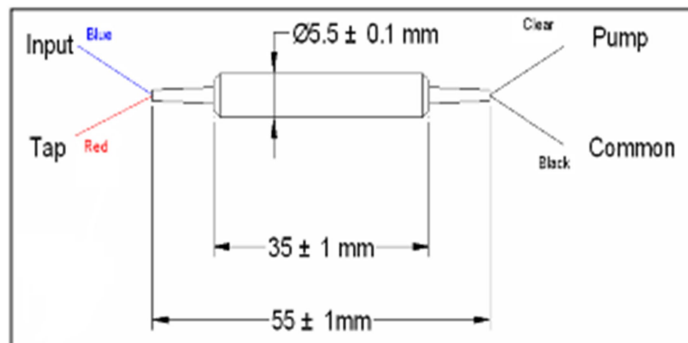
Application: Fiber amplifier, fiber laser.

Specifications:

Parameter		Unit	Specifications**	
			Single Stage	Dual Stage
Pass Band				
Signal Wavelength		nm	1530 - 1580	
1550 Signal Tap Ratio @ Input to Tap		%	1 ± 0.5, 5 ± 1, 10 ± 2	
Max. Signal Insertion Loss @ Input to Common	980 pump	Tap 1%	1.0	1.2
		Tap 5%	1.2	1.4
		Tap 10%	1.5	1.7
	1480 pump	Tap 1%	1.0	1.2
		Tap 5%	1.1	1.3
		Tap 10%	1.3	1.5
Min. Signal Isolation (1550 ± 10 nm for single stage, 1550 ± 30 nm for dual stage, 23 °C)		dB	30	40
Max. Polarization Dependent Loss		dB	0.1	0.2
Max. Polarization Mode Dispersion		ps	0.25*	0.05
Reflection Band				
Wavelength Range	980 pump	nm	950 – 1010	
	1480 pump		1450 - 1490	
Max. Insertion Loss		dB	0.5	
Max. Polarization Dependent Loss		dB	0.05	
Min. Return Loss		dB	50	
Max. Optical Power (CW)		mW	300	
Min. Directivity (Pump to Tap/Input) @ Pump Wavelength		dB	45	
Max. Optical Power (CW)		dB	300	
Max. Tensile Load		N	5	
Operating Temperature		°C	-5 to +70	
Storage Temperature		°C	-40 to + 85	
Dimension		mm	5.5 (D) x 35 (L)	
Fiber Type	With 1480 pump		SMF-28 for all ports	
	With 980 pump		SMF-28 fiber for Input and Tap ports, Hi1060 for Pump and Common ports	

* Low PMD (<0.05ps) version is available; ** Each connector may contribute extra 0.3 dB IL, 5 dB lower RL.

Package Dimensions



Order Information:
TIWDM-AA-B-CC-D-E-F-G

AA: pump type	B: isolate stage	CC: tap ratio	D: PMD	E: connector type	F: fiber jacket	G: fiber length
98 – 980 nm	1 – single stage	01 – 1%	1 – < 0.05 ps	1 - FC/UPC	B - 250µm bare fiber	1 – 1.0 m
48 – 1480 nm	2 – dual stage	05 – 5%	2 – Specified above	2 - FC/APC	L - 900 µm loss tube	X - other
		10 – 10%		3 - SC/UPC	X - other	
				4 - SC/APC		
				N - none		
				X - other		