

Tap/Isolator/WDM Hybrids (TIW)

Description

Tap&Isolator&WDM Hybrid is made by special packaging technology, which combines Tap.&WDM and isolator into a compact package. It has Tap.&WDM and isolator function at the same time. It is widely used in EDFA and other fields.

Key Features

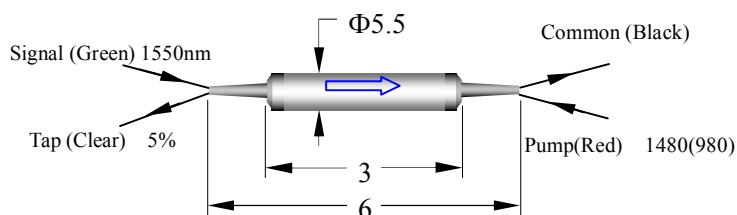
- * Compact size
- * Low insertion loss
- * High channel isolation
- * Low cost

Applications

- * EDFA
- * WDM system
- * CATV



Forward



Specifications

Parameter	Type	1480/1550		980/1550	
		Single stage	Dual stage	Single stage	Dual stage
Isolator stage		Single stage	Dual stage	Single stage	Dual stage
Isolation @ 23°C (dB)		≥30	≥48	≥30	≥48
Signal wavelength range (nm)		1528~1565(C-Band)			
Insertion loss (Signal) (dB)	95%(5/95)	≤1.2	≤1.3	≤1.2	≤1.3
	90%(10/90)	≤1.4	≤1.5	≤1.4	≤1.5
PMD (ps)		≤0.25	≤0.05	≤0.25	≤0.05
Pump wavelength range (nm)		1450~1490		965~995	
Insertion loss (pump) (dB)		≤0.5		≤0.6	
Insertion loss (tap) (dB)		5%(5/95):14.5 , 10%(10/90):11.3			
Transmitted isolation @ λ -pump (dB)		≥30			
Reflected isolation @ λ -signal (dB)		≥15			
PDL (dB)		≤0.1			
WDL(except tap port) (dB)		≤0.3			
Directivity (dB)		≥55			
Return loss (dB)		≥50			
Thermal stability (except tap port) (dB/ °C)		≤0.005			
Power handling (mW)		≤500			
Operating temperature (°C)		-5 ~ +70			
Storage temperature (°C)		-40 ~ +85			
Package dimension (mm)		Φ5.5 × L38			
Fiber type: (common / pump)		Corning SMF-28e		Corning Hi1060	
Fiber type (signal)		Corning SMF-28e			

* The above specifications are without connector, The maximum IL of connector will be 0.3 dB

Product information is subject to change without notice.

www.lightcomm.com

Ordering Information

TIW-XXX-XXX/XXXX-XX/XX-X-X-X-X-XX/XXX-XX*XX

