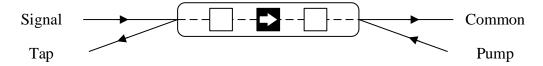


Product: Tap + Isolator + WDM Hybrid

Part Number		Spec Number	Version	Date		
ı	TAIWXXXXXXXXXX	S003	Rev 02	11/30/2021		

1 Function Diagram

This is a tap coupler + isolator + 1550/980nm WDM hybrid.



2 Specifications

2.1 Environment Conditions

Item	Parameters	Symbol	Min	Тур	Max	Units	Note
1.	Operating Temperature	Top	0		70	°C	
2.	Storage Temperature	Tstor	-40		85	°C	
3.	Operating Relative Humidity	RHop	5		95	%	[1]
4.	Storage Relative Humidity	RHstor	5		95	%	[1]

Note:

[1] Not to exceed industrial standard of 0.024 kg water per kg of dry air under non-condensing conditions.

2.2 Optical Specifications

Item	Parameters		Symbol	Min	Тур	Max	Units	Note
5.	Signal Wavelength	λs	1528 ~ 1568			nm		
6.	Pump Wavelength	λр	965 ~ 995			nm		
7.	Signal Insertion Loss (Signal → Com) @λs		IL_S			1.5	dB	
8.						0.6	dB	
9.			IL_T	17		24	dB	1%
10	Isolator Isolation	Single Stage	Iso	20			dB	
10.	(Com \rightarrow Signal) @ λ s	Dual Stage	Iso	36			dB	
11.	. Pass Isolation (Signal → Com) @λp		Iso	25			dB	G
12.	2. Reflect Isolation (Pump → Com) @ λs		Iso	15			dB	G
13.			WDL			0.5	dB	
14.	Polarization Dependent Loss		PDL			0.2	dB	
15.	Return Loss @23°C		RL	50			dB	
16.	Directivity (Com → Signal) @23°C		Dir	50			dB	
17.	Polarization Mode	Single Stage	PMD			0.25	ps	G
1/.	Dispersion	Dual Stage	PMD			0.05	ps	G
18.	Optical Power		Pop	·		500	mW	G

Note:

^{*}Above specifications are for device without connector. IL is 0.3 dB higher, RL is 5 dB lower after connector added. G: Guaranteed by design.



2.3 Mechanical Specifications

2.3.1 Specifications

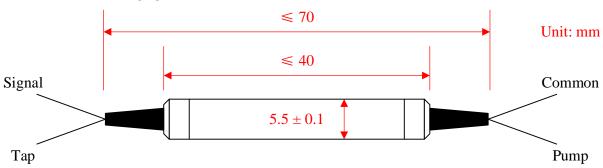
Item	Parameters		Symbol	Min	Тур	Max	Units	Note
19.	Fiber Type	Signal & Tap		G.657 A1				
19.		Common & Pump		OFS CL 980-20				
20.	Fiber Length			By PN			m	
21.	Fiber Jacket			By PN			[2]	
22.	Connector Type			By PN				
23.	Package Dimension		See below for details			mm		
	Fiber Color	Signal		Black				[3]
24.		Tap & Common		Natural				
		Pump		Red				[3]

Note:

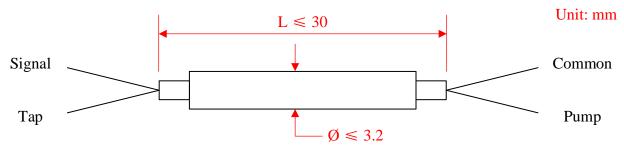
- [2] Available in bare fiber or loose tube. Loose tube is only for steel tube packaging.
- [3] Mark the bare fiber starting at 10~30cm away from the device body to fiber end.

2.3.2 Drawing

Steel Tube Packaging:



Glass Tube Packaging:



3 Device Label, Delivery Data

Triple-Stone standard format.

4 RoHS

RoHS compliant.



5 Ordering Information

