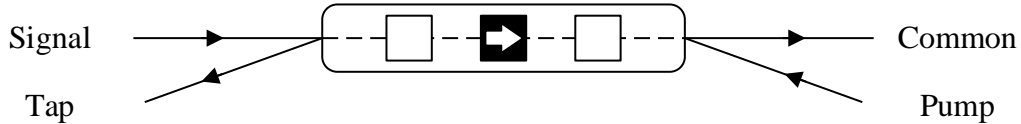


Product: Tap + Isolator + WDM Hybrid

Part Number	Spec Number	Version	Date
TAIWXXXXXXXXXXXX	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	Typ	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	Typ	Max	Units	Note
5.	Signal Wavelength	λ_s	1528 ~ 1568			nm	
6.	Pump Wavelength	λ_p	965 ~ 995			nm	
7.	Signal Insertion Loss (Signal → Com) @ λ_s	IL _S			1.5	dB	
8.	Pump Insertion Loss (Pump → Com) @ λ_p	IL _P			0.6	dB	
9.	Tap Insertion Loss (Signal → Tap)	IL _T	17		24	dB	1%
10.	Isolator Isolation (Com → Signal) @ λ_s	Single Stage	Iso	20		dB	
		Dual Stage	Iso	36		dB	
11.	Pass Isolation (Signal → Com) @ λ_p	Iso	25			dB	G
12.	Reflect Isolation (Pump → Com) @ λ_s	Iso	15			dB	G
13.	Wavelength Dependent Loss @23°C	WDL			0.5	dB	
14.	Polarization Dependent Loss	PDL			0.2	dB	
15.	Return Loss @23°C	RL	50			dB	
16.	Directivity (Com → Tap) @23°C	Dir	50			dB	
17.	Polarization Mode Dispersion	Single Stage	PMD		0.25	ps	G
		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	Typ	Max	Units	Note
19.	Fiber Type	Signal & Tap		G.657 A1			
		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	
24.	Fiber Color	Signal		Black			[3]
		Tap & Common		Natural			
		Pump		Red			[3]

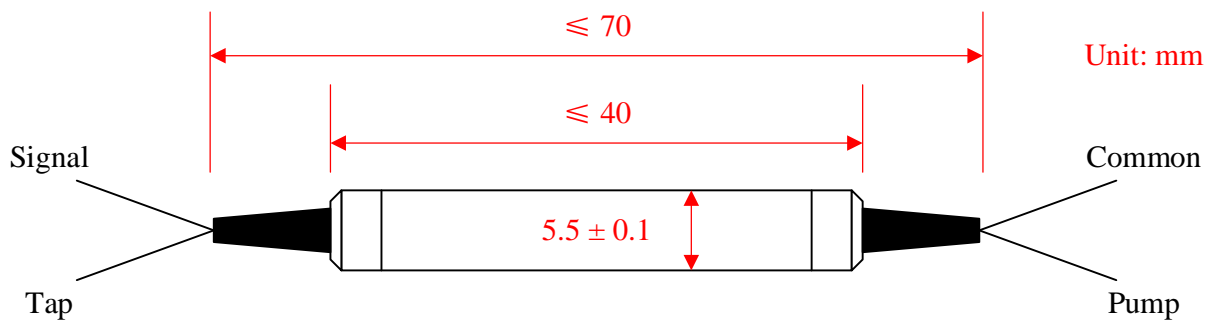
Note:

[2] Available in bare fiber or loose tube. Loose tube is only for steel tube packaging.

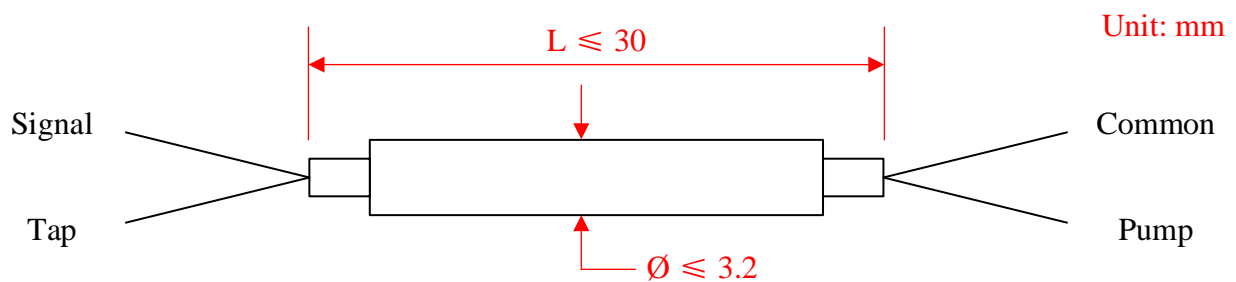
[3] Mark the bare fiber starting at 10~30cm away from the device body to fiber end.

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

