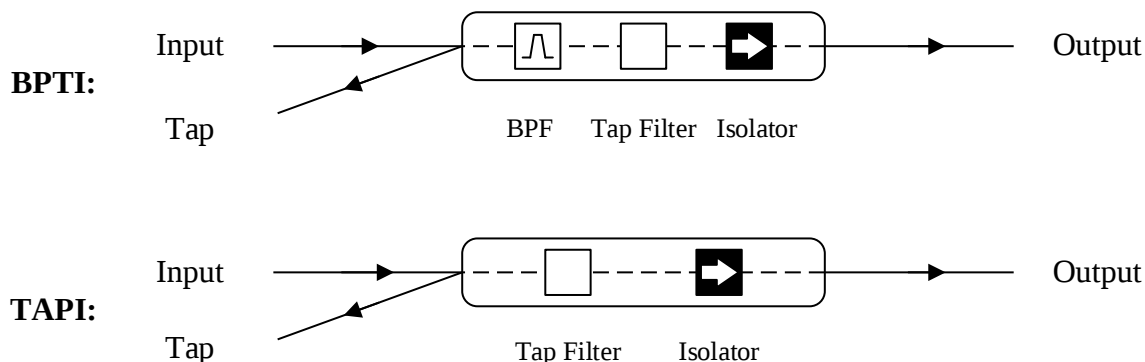


Product: (Band Pass Filter +) Tap Splitter+ Isolator Hybrid

Part Number	Spec Number	Version	Date
BPTI(TAPI)XXXXXXXXXXXX	S028	Rev 01	11/30/2022

1 Function Diagram



2 Specifications

2.1 Environment Conditions

Item	Parameters	Symbol	Min	Typ	Max	Units	Note
1.	Operating Temperature	Top	-40		105	°C	
2.	Storage Temperature	Tstor	-40		120	°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.	Operating Wavelength Range	λ_{op}	1520 ~ 1570			nm	
6.	Center Wavelength	λ_c	1550 or 1535			nm	
7.	Tap Ratio	Tap	0.1			%	
8.	Min. Pass Bandwidth @0.5dB down	PBW	$\lambda_c \pm 2$			nm	
9.	Max. Stop Bandwidth @25dB down	SBW	$\lambda_c \pm 13$			nm	
10.	Insertion Loss	IL	28	0.8	1.1	dB	
11.	(Input → Output)			1.0	1.2		
12.	Insertion Loss (Input → Tap)	IL	28		33	dB	
13.	Polarization Dependent Loss (Input → Output)	PDL			0.2	dB	
14.	Temperature Dependent Loss	Input → Output	TDL		0.25	dB	
		Input → Tap			0.5		
15.	Isolation	Iso	16			dB	
16.	(Output → Input)						
17.	Isolation @1520&1570nm 23°C	Iso	25			dB	G
18.	Return Loss @ λ_c 23°C	RL	45			dB	
19.	Power Handling (Continuous Wave)	Pop			5	W	G
20.	Peak Power Handling (For ns Pulse)	Pp			5	kW	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

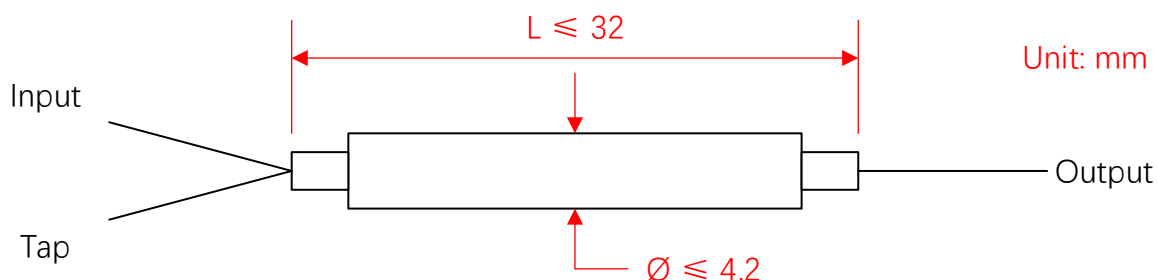
Item	Parameters	Symbol	Min	Typ	Max	Units	Note
21.	Fiber Type			By PN			
22.	Fiber Length			By PN		m	
23.	Fiber Jacket			Bare fiber			
24.	Connector Type			By PN			[2]
25.	Package Dimension			$\varnothing \leq 4.2 \times L \leq 32$		mm	
26.	Fiber Color	Input		Black			[3]
		Tap		Natural			
		Output		Natural			

Note:

[2] Optical Power is only 1W for connector added.

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

2.3.2 Drawing



3 Device Label, Delivery Data

Triple-Stone standard format.

4 RoHS

RoHS compliant.

5 Ordering Information

