1020-1150nm High Power PM Tap Isolator Hybrid for Pulse Power

Features

- Low Excess Loss
- Various Splitting Ratio
- Wide Passband
- High Stability and Reliability
- Epoxy Free Optical Path

Applications

- Optical Amplifier
- Optical Networks
- Power Monitoring
- Fiber Sensor
- Lab

Specifications

Parameter		Unit	Single Stage	Dual Stage D Type	Dual Stage L Type
Center Wavelength		nm	1020, 1030, 1040, 1053, 1064 1070, 1080, 1092, 1103, 1120, 1150		
Bandwidth		nm	+/-10		
Split Ratio		-	0.1:99.9, 1:99, 2:98, 5:95, 10:90, 20:80, 30:70, 40:60, 50:50		
Tap Ratio		-	0.1%, 1+/-0.6%, 2+/-0.8%, 5+/-1.0%, 10%, 20%, 30%, 40%, 50%		
Excess Loss	Max.	dB	1.8 (Typ. 0.9)	2.0 (Typ. 1.1)	2.0 (Typ. 1.3)
Min. Isolation (23°C)		dB	22	38	
Extinction Ratio		dB	≥18		
Working Mode	S Type	-	Tap Input Light before Isolator, Can only work in Slow Axis		
	F Type	-	Tap Input Light before Isolator, work in Slow & Fast Axis		
	B Type	-	Tap Input Light after Isolator, Can only work in slow axis		
Optical Return Loss		dB	≥45		
Configuration		-	Standard: 3-Port; X Type: 4-Port, Backward Power Guide Out		
Fiber Type	Thru Port	-	PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L)		
		-	10/125um PMDC Fiber (O), 15/130um PMDC Fiber (W)		
			20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R)		
	Tap/4th Port	-	Same fiber, Corr. SM Fiber or 105/125um MM Fiber		
Fiber Tensile Load		N	5		
Max. Average Optical Power		W	0.5, 1, 2, 3, 5, 10, 15, 20, 30, 50, 80, 100, 150, 200		
Max. Peak Power for pulse		kW	0.1, 1, 2, 3, 5, 10, 15, 20		
Max. Backward Average Power		W	0.3, 0.5, 1, 2, 3, 5, 10		
Operating Temperature		°C	0~50		
Storage Temperature		°C	-20~75		

Note: 1. Specifications are for device without connectors; Specifications may change without notice.

2. To add connectors, IL is 0.5dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

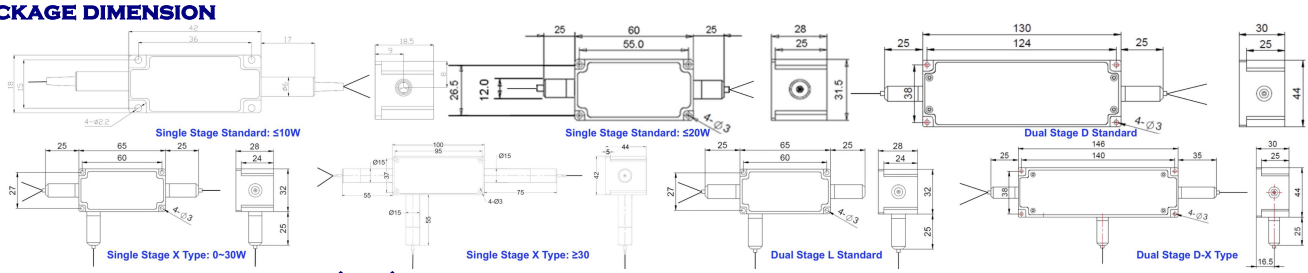
3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

4. Suggest to use X type for >20W Optical Power or continuous backward power of ≥500mW.

5. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.

6. Package dimensions may be different for different fiber type, configuration and optical power.

Package Dimension



Ordering Information (PN)

FPTI-NNNN-(C) C NN - (C) (C) -HNN P NN -(NN) - C C NN -CC/CCC

Wavelength	Stage	Type	TapRatio	Tap Port Fiber	4th Port Fiber	Average Power	Peak Power	Backward Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1030=1030nm	D=D Type	S=S Type	01=1%	S=Corr. SM Fiber	Y= Same Fiber	05=500mW	01= 100W	05=500mW	2=PM980 Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
1064=1064nm	L=L Type	F=F Type	10=10%	A=105/125um Fiber	S=Corr. SM Fiber	5=5W	1=1kW	1=1W	E=PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
1080=1080nm	Blank for Single	B=B Type	30=30%	Blank for Same Fiber	A=105/125um Fiber	10=10W	5=5kW	10=10W	Q=20/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
1120=1120nm			50=50%		Blank for Standard	20=20W	10=10kW	Blank for 300mW	R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector