

## 980/1040nm WDM/Isolator/Tap PM Hybrid for Pulse Power

### FEATURES

- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability

### APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks

### SPECIFICATIONS

Parameters	Unit	Single Stage	Dual Stage	
Signal Wavelength Range $\lambda_1$	nm	1040+/-10		
Pump Wavelength Range $\lambda_2$	nm	980+/-10		
Excess Loss@23°C	Signal Channel@ $\lambda_1$	dB	≤4.6	≤8.3
Insertion Loss@23°C	Pump Channel@ $\lambda_2$	dB	≤0.8	
Signal Tap Ratio		%	1+/-0.5%, 2+/-0.7%, 5+/-1.0%, 10%, 20%, 30%, 50%	
Signal Isolation (23°C, All SOP)		dB	≥20	≥40
Wavelength Isolation	Signal Channel@ $\lambda_2$	dB	≥25	
	Pump Channel@ $\lambda_1$	dB	≥12	
Optical Return Loss		dB	≥45	
Extinction Ratio		dB	≥18	
Pump Direction	S Type	-	Forward Pump, Only Slow Axis Working	
	F Type	-	Forward Pump, Both Axis Working	
	B Type	-	Backward Pump, Only Slow Axis Working	
Fiber Type	Common & Signal	-	PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L)	
		-	10/125um PMDC Fiber (O) or 15/130um PMDC Fiber (W)	
		-	20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R)	
	Pump Port	-	Same Fiber, Corr. SM Fiber, PM980 Fiber or HI1060 Fiber	
Tap Port	-	Same Fiber or Corr. SM Fiber		
Fiber Tensile Load	N	5		
Max. Signal Average Power	mW	100		
Max. Pump Average Power	W	0.3, 0.5, 1, 2, 3, 5, 10		
Max. Peak Power for pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20		
Operating Temperature	°C	0~50		
Storage Temperature	°C	-40~85		
Package Dimension	Stainless Steel Tube (SST)	mm	(Ø)5.5x40	
	Metal Box	mm	(L)120x(W)12x(H)10	

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.5dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
  - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  - 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.

### ORDERING INFORMATION (PN)

<b>FPHT-9804-C C NN - C</b>	<b>C</b>	<b>-H</b>	<b>NN</b>	<b>P NN</b>	<b>-(NN)</b>	<b>-(C)</b>	<b>C</b>	<b>C</b>	<b>NN</b>	<b>-CC/CCC</b>		
<i>Stage</i>	<i>Pump Type</i>	<i>Tap Ratio</i>	<i>Pump Fiber</i>	<i>Tap Port Fiber</i>	<i>Average Power</i>	<i>Peak Power</i>	<i>Pump Power</i>	<i>Package</i>	<i>Fiber Type</i>	<i>Fiber Sleeve</i>	<i>Fiber Length</i>	<i>Connector Type</i>
S=Single	S=S Type	01=1%	Y=Same Fiber	P=Same Fiber	01=100mW	01=100W	05=500mW	M=Metal Box	2=PM980Fiber	B=Bare fiber	05=0.5m	N=Without Connector
D=Dual	F=F Type	05=5%	P=PM980 Fiber	S=Corr. SM Fiber		1=1kW	1=W	Blank for SST	E=PM1060L Fiber	L=Loose Tube	10=1.0m	FC/APC=FC/APC Connector
	B=B Type	10=10%	H=HI1060 Fiber			10=10kW	10=W		Q=20/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector
		50=50%	S=Corr. SM Fiber			20=20kW	Blank for 300mW		R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

