

## 915/1080nm WDM/Isolator/Tap 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	1080+/-10		
Pump Wavelength Range $\lambda_2$	nm	915+/-10		
Excess Loss@23°C	Signal Channel@ $\lambda_1$	dB	≤2.7	≤4.2
Insertion Loss@23°C	Pump Channel@ $\lambda_2$	dB	≤1.0	
Signal Tap Ratio		%	1+/-0.5%, 2+/-0.7%, 5+/-1.0%, 10%, 20%, 30%, 50%	
Signal Isolation (23°C, All SOP)		dB	≥22	≥40
Wavelength Isolation	Signal Channel@ $\lambda_2$	dB	≥25	
	Pump Channel@ $\lambda_1$	dB	≥12	
Optical Return Loss		dB	≥45	
PDL		dB	≤0.3	
Pump Direction	-		Forward Pump	
Fiber Type	Common, Signal & Tap Port	-	HI780 Fiber, HI1060 Fiber or 10/125um SC Fiber (E)	
		-	10/125um DC Fiber (O) or 15/130um DC Fiber (W)	
	Pump Port	-	20/130um DC Fiber (Q) or 25/250um DC Fiber (R)	
Fiber Tensile Load		N	5	
Max. Signal Average Power		mW	300	
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 0.7dB higher, RL is 5dB lower.
  - 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)

FHWT-9108-**C NN (C) -H NN P NN -(NN) -(C) (C) C NN -CC/CCC**

Stage	Tap Ratio	Pump Fiber	Average Power	Peak Power	Pump Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
S= Single	01= 1%	H= HI780 Fiber	03=300mW	01=100W	05=500mW	M= Metal Box	H= HI1060 Fiber	B= Bare fiber	05=0.5m	N= Without Connector
D= Dual	05=5%	Blank for Same Fiber		1= 1kW	1= W	Blank for SST	E= 10/125 SC Fiber	L= Loose Tube	10= 1.0m	FC/APC= FC/APC Connector
	10= 10%			5= 5kW	10= W		R= 25/250 DC Fiber	2= 2mm Cable	15= 1.5m	LC/PC= LC/PC Connector
	50= 50%			10= 10kW	Blank for 300mW		Blank for HI780 Fiber	3= 3mm Cable	20= 2.0m	SC/UPC= SC/UPC Connector