

## 915/1092nm WDM/Isolator/Tap Hybrid

### 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	1092+/-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)	
	Pump Port	-	Same Fiber, HI780 Fiber or HI1060 Fiber	
Fiber Tensile Load		N	5	
Max. Signal Optical Power (CW)		mW	300	
Max. Pump Optical Power (CW)		W	0.3, 0.5, 1, 2, 3, 5, 10	
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-9109-C	NN	(C)	-(NN)	-(C)	(C)	C	NN	-CC/CCC
Stage	Tap Ratio	Pump Fiber	Pump Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
S=Single	01=1%	H=HI780 Fiber	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=W	Blank for SST	E=10/125 SC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
	10=10%		10=W		R=25/250 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
	50=50%		Blank for 300mW		Blank for HI780 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector