

## 980/1092nm 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	980+/-10	
Excess Loss@23°C      Signal Channel@ $\lambda_1$	dB	≤2.7	≤4.2
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	≥22	≥40
Wavelength Isolation	Signal Channel@ $\lambda_2$	≥25	
	Pump Channel@ $\lambda_1$	≥12	
Optical Return Loss	dB	≥45	
PDL	dB	≤0.3	
Pump Direction	-	Forward Pump	
Fiber Type	-	HI1060 Fiber or 10/125um SC Fiber (E)	
	-	10/125um DC Fiber (O) or 15/130um DC Fiber (W)	
	-	20/130um DC Fiber (Q) or 25/250um DC Fiber (R)	
Fiber Tensile Load	N	5	
Max. Signal Optical Power (CW)	mW	300	
Max. Pump Optical Power (CW)	mW	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:**
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.
  3. 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-9809-C	NN	-(NN)	-(C)	(C)	C	NN	-CC/CCC
Stage	Tap Ratio	Pump Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
S= Single	01= 1%	05=500mW	M= Metal Box	E= 10/125 SC Fiber	B= Bare fiber	05=0.5m	N= Without Connector
D= Dual	05=5%	1=W	Blank for SST	Q= 20/130 DC 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 HI1060 Fiber	3= 3mm Cable	20=2.0m	SC/UPC= SC/UPC Connector