

## 980/1030nm 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	1030+/-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@ $\lambda_2$	≥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 Average Power	mW	50	
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.
  - 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-9803-C NN -H NNN		P NN	-(NN)	-(C)	(C)	C	NN	-CC/CCC	
Stage	Tap Ratio	Average Power	Peak Power	Pump Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
S=Single	01=1%	005=500mW	01=100W	05=500mW	M=Metal Box	E=10/125 SC Fiber	B= Bare fiber	05=0.5m	N=Without Connector
D=Dual	05=5%		1=1kW	1=W	Blank for SST	Q=20/130 DC 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 HI1060 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector