

## 980/1080nm WDM/Isolator Hybrid for Pulse Power

### FEATURES

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

### APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Metro Networks
- CATV Networks



### SPECIFICATIONS

Parameters	Unit	Single Stage	Dual Stage	
Signal Wavelength Range $\lambda_1$	nm	1080+/-10		
Pump Wavelength Range $\lambda_2$	nm	980+/-10		
Insertion Loss@23°C	Signal Channel@ $\lambda_1$	dB	≤2.7	≤4.2
	Pump Channel@ $\lambda_2$	dB	≤0.8	
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	≤0.2	≤0.25	
Fiber Type	-	HI1060 Fiber or 10/125um SC Fiber (E) 10/125um DC Fiber (O), 15/130um DC Fiber (W) 20/130um DC Fiber (Q) or 25/250um DC Fiber (R)		
Fiber Tensile Load	N	5		
Max. Signal Average Optical Power	mW	300		
Max. Pump Average Optical 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)5.5x35	
	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. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  4. 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)

FHWM-9808-C	C	-H	NN	P	NN	-(NN)	-(C)	(C)	C	NN	-CC/CCC
Stage	Pump Type	Average Power	Peak Power	Pump Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type		
S= Single	F= Forward	03=300mW	01=100W	05=500mW	M=Metal Box	E=10/125 SC Fiber	B= Bare fiber	05=0.5m	N=Without Connector		
D= Dual	B= Backward		1= 1kW	1=W	Blank for SST	Q=20/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector		
			10= 10kW	10=W		R=25/250 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector		
			20=20kW	Blank for 300mW		Blank for HI1060 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector		