

## 980/1120nm WDM/Isolator Hybrid

### 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	1120+/-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	≥20	≥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 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)5.5x35	
	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, ER is 2dB Lower, Connector key is aligned to slow axis.
  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)

FHWM-NNNN-	C	C	-(NN)	-(C)	(C)	C	NN	-CC/CCC
Wavelength	Stage	Pump Type	Pump Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
9812- 980/1120nm	S- Single D-Dual	F- Forward B-Backward	05-500mW 1-W 10-W Blank for 300mW	M=Metal Box Blank for SST	E=10/125 SC Fiber Q=20/130 DC Fiber R=25/250 DC Fiber Blank for HI1060 Fiber	B- Bare fiber L- Loose Tube 2- 2mm Cable 3- 3mm Cable	05-0.5m 10-1.0m 15-1.5m 20-2.0m	N=Without Connector FC/APC=FC/APC Connector LC/PC=LC/PC Connector SC/UPC=SC/UPC Connector