

## 980/1092nm PM 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	1092+/-10	
Pump Wavelength Range $\lambda_2$	nm	980+/-10	
Insertion Loss@23°C	Signal Channel@ $\lambda_1$	dB	≤2.7
	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	
Extinction Ratio	dB	≥18	
Working Mode	S Type	-	Can only work in Slow Axis
	F Type	-	Can work both in Slow Axis and Fast Axis
Fiber Type	Common and Signal Port	-	PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L) 10/125um PMDC Fiber (O), 15/130um PMDC Fiber (W) 20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R)
	Pump Port (980nm)	-	Same Fiber, Corr. SM Fiber, PM980 Fiber or HI1060 Fiber
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, ER is 2dB Lower, Connector key is aligned to slow axis.
  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)

<b>FPHW-9809-C C C - H NN P NN - (NN) -(C) C C NN -CC/CCC</b>
<i>Stage Pump Type Work Mode Pump Fiber Average Power Peak Power Pump Power Package Fiber Type Fiber Sleeve Fiber Length Connector Type</i>
S=Single F=Forward S=S Type Y=Same Fiber 03=300mW 01=100W 05=500mW M=Metal Box 2=PM980Fiber B= Bare fiber 05=0.5m N=Without Connector
D=Dual B=Backward F=F Type P=PM980 Fiber 1=1kW 1=W Blank for SST E=PM1060L Fiber L= Loose Tube 10=1.0m FC/APC=FC/APC Connector
H=HI1060 Fiber 10=10kW 10=W Q=20/130 PMDC Fiber 2= 2mm Cable 15=1.5m LC/PC=LC/PC Connector
S=Corr. SM Fiber 20=20kW Blank for 300mW R=25/250 PMDC Fiber 3= 3mm Cable 20=2.0m SC/UPC=SC/UPC Connector

