

## 915/1120nm PM 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	915+/-10	
Insertion Loss@23°C	Signal Channel@ $\lambda_1$	dB	≤2.7
	Pump Channel@ $\lambda_2$	dB	≤1.0
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	-	PM850 Fiber, PM980 Fiber or PM1060L Fiber (E)
		-	10/125um PMDC Fiber (O), 15/130um PMDC Fiber (W) 20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R)
Fiber Type	Pump Port (915nm)	-	Same Fiber, Corr. SM Fiber, PM850 Fiber, HI780 Fiber, PM980 Fiber (M) or HI1060 Fiber (X)
		-	
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 0.7dB 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)

FPHW-9112-C	C	C	C	- (NN)	- (C)	C	C	NN	-CC/CCC
Stage	Pump Type	Work Mode	Pump Fiber	Pump Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
S= Single	F= Forward	S= S Type	P=PM850 Fiber	05=500mW	M=Metal Box	2=PM850Fiber	B= Bare fiber	05=0.5m	N=Without Connector
D=Dual	B=Backward	F= F Type	Y=Same Fiber	1=W	Blank for SST	H=PM980 Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
			S=Corr. SM Fiber	10=W		E= PM1060L Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
			H=HI780 Fiber	Blank for 300mW		R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

