915/1310/1550/1590nm High Power PM WDM

FEATURES

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

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Research Labs

SPECIFICATIONS

Parameters		Unit	Standard	High ER Type
Pass Channel Wavelength Range λ1		nm	1310+/-20, 1550+/-20, 1590+/-20	
Reflective Channel Wavelength Range λ2		nm	915+/-15	
Insertion Loss over λ1 @ Pass Channel		dB	≤1.2	≤1.4
Insertion Loss overλ2 @ Reflective Channel		dB	≤1.0	
Configuration	Y Type	-	3-port	
	X Type	-	4-port (2x2 WDM)	
Isolation over λ1 @ Reflective Channel		dB	≥12	
Isolation over λ2 @ Pass Channel		dB	≥25	
Optical Return Loss		dB	≥50	
Extinction Ratio		dB	≥18	≥20
Fiber Type	Common & Signal	-	PM1310/1550 Panda Fiber or 10/125um PMDC Fiber (O) 12/130um PMDC Fiber (T) or 20/130um PMDC Fiber (Q) 25/250um PMDC Fiber (R) or 25/300um PMDC Fiber (G)	
	Pump (915nm)	-	Same Fiber, Corr. SM Fiber, PM850 Fiber or HI780 Fiber PM980 Fiber (M) or HI1060 Fiber (X)	
Polarization Alignment		-	Slow Axis	
Fiber Tensile Load		N	5	
Max. Optical Power (CW)		W	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 (≤5W); (Ø)6.0x48 (5~10W)	
	Metal Box	mm	(L)90x(W)18x(H)10 (>10W); (L)120x(W)12x(H)10 (≤10W)	

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. 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.

5. High ER type can only work in slow axis at pass port.

6. 915nm light will transmit as low order modes in common port signal fiber.

ORDERING INFORMATION (PN)

FPWM-NN NN - C (C) C -HP NN - (C) C C NN -CC/CCC

Ref Wavelength	*Pass Wavelength*	*Pump. Fiber*	*Ref. Fiber2*	*Type*	*Optical Power*	*Package*	*Fiber Type*	*Fiber Sleeve*	*Fiber Length*	*Connector Type*
91=915nm	15=1550nm	Y= Same Fiber	X= Same Fiber	H= High ER	1= 1W	M=Metal Box	2=PM1310/1550 Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
	59=1590nm	S= Corr. SM Fiber	S= Corr. SM Fiber	S= Standard	5=5W	*Blank* for SST	E=10/125 PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
	13=1310nm	P=PM850 Fiber	P=PM850 Fiber		10=10W	or >10W	T=12/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC =LC/PC Connector
		H=HI780 Fiber	*Blank* for Y Type		20=20W		R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector