

915/1020~1120nm High Power PM WDM

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	Standard	High ER Type
Pass Channel Wavelength Range λ_1	nm	915±10, 1020±5, 1030±10, 1040±10, 1053±10, 1064±10, 1070±10, 1080±10, 1092±5, 1120±5	
Reflective Channel Wavelength Range λ_2	nm		
Insertion Loss over λ_1 @ Pass Channel	dB	≤1.2	≤1.4
Insertion Loss over λ_2 @ Reflective Channel	dB	≤1.0	
Configuration	Y Type	3-port	
	X Type	4-port (2x2 WDM)	
Isolation over λ_1 @ Reflective Channel	dB	≥12	
Isolation over λ_2 @ Pass Channel	dB	≥25	
Optical Return Loss	dB	≥50	
Extinction Ratio	dB	≥18	≥20
Fiber Type	-	PM850 Fiber or PM980 Fiber PM1060L Fiber (E) or PM1060L-FA Fiber (L) 10/125um PMDC Fiber (O) or 15/130um PMDC Fiber (W) 20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R)	
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	(\varnothing)5.5x35 (≤5W); (\varnothing)6.0x48 (5~10W)
	Metal Box	mm	(L)90x(W)12x(H)10 (>10W); (L)120x(W)12x(H)10 (≤10W)

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
 - To add connectors, IL is 0.7dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
 - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
 - 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.
 - High ER type can only work in slow axis at pass port.

ORDERING INFORMATION (PN)

FPWM-NN	NN	- C	(C)	C-HP	NN	-(C)	C	C	NN	-CC/CCC
Ref Wavelength	Pass Wavelength	Pump. Fiber	Pump Fiber2	Type	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
91-915nm	05-1053nm	P=Same Fiber	P=Same Fiber	H=High ER	1-1W	M=Metal Box	2-PM850Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
06-1064nm	03-1030nm	S=Corr. SM Fiber	X=Corr. SM Fiber	S=Standard	5=5W	Blank for SST	H=PM980Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
02-1020nm	09-1092nm	M=PM850 Fiber	Blank for Y Type		10=10W	or >10W	E=PM1060L Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector
12-1120nm	91-915nm	H=PM980 Fiber			20=20W		R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector