



780~850/1310~1590nm PM WDM for Pulse Power

FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks

SPECIFICATIONS

Parameters		Unit	Standard	High ER Type
Pass Channel Wavelength Range λ_1		nm	780+/-10, 793+/-10, 810+/-10, 830+/-10,	
Reflective Channel Wavelength Range λ_2		nm	850+/-10, 1310+/-20, 1550+/-20, 1590+/-20	
Insertion Loss over λ_1 @ Pass Channel		dB	≤ 1.8	≤ 2.0
Insertion Loss over λ_2 @ Reflective Channel		dB	≤ 1.8	
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	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 (780-850nm)	-	Same Fiber or Corr. SM Fiber, PM850 Fiber, PM780HP Fiber or HI780 Fiber	
Polarization Alignment		-	Slow Axis	
Fiber Tensile Load		N	5	
Max. Average Optical Power		W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20	
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	$(\varnothing)5.5 \times 35$ ($\leq 5W$); $(\varnothing)6.0 \times 48$ (5~10W)	
	Metal Box	mm	(L)90x(W)18x(H)10 (>10W); (L)120x(W)12x(H)10 ($\leq 10W$)	

- 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.
 - 780~850nm light will transmit as low order modes in common port signal fiber.

ORDERING INFORMATION (PN)

FPWM-NN	NN	- C	(C)	C	-H NN	P NN	-(C)	C	C	NN	-CC/CCC
Ref Wavelength	Pass Wavelength	Pump Fiber	Pump Fiber2	Type	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
79~793nm	15=1550nm	Y= Same Fiber	X= Same Fiber	H= High ER	03=300mW	01=100W	M= Metal Box	2=PM1310/1550 Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
83~830nm	59=1590nm	S= Corr. SM Fiber	S= Corr. SM Fiber	S=Standard	1= 1W	1= 1kW	Blank for SST	E=10/125 PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
13~1310nm	78=780nm	P=PM850 Fiber	P=PM850 Fiber		10=10W	10=10kW	or >10W	T=12/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector
15=1550nm	85=850nm	7=PM780HP Fiber	Blank for Y Type		20=20W	20=20kW		R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector
											H=HI780 Fiber