

1120/1020~1092nm PM WDM for Pulse Power

FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability
- Various Bandwidth
- High Optical Power

APPLICATIONS

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

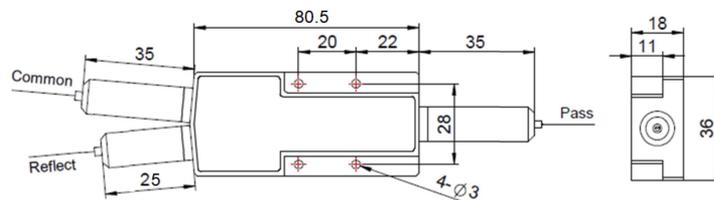


SPECIFICATIONS

Parameters	Unit	Standard	High Isolation
Pass Channel Wavelength Range λ_1	nm	1120 \pm 5	
Reflective Channel Wavelength Range λ_2	nm	1020 \pm 10, 1030 \pm 10, 1040 \pm 10, 1053 \pm 10, 1064 \pm 10, 1070 \pm 10, 1080 \pm 10, 1092 \pm 5	
Insertion Loss over λ_1 @ Pass Channel	dB	\leq 1.2	\leq 1.4
Insertion Loss over λ_2 @ Reflective Channel	dB	\leq 1.0	
Configuration	Y Type	3-port	
	X Type	4-port (2x2 WDM)	
Isolation over λ_1 @ Reflective Channel	dB	\geq 12	
Isolation over λ_2 @ Pass Channel	dB	\geq 25	\geq 45
Optical Return Loss	dB	\geq 50	
Extinction Ratio	Standard	\geq 18	
	High ER Type	\geq 20	
Fiber Type	-	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. Average Optical Power	W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60	
Max. Peak Power for pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20	
Operating Temperature	$^{\circ}$ C	0~50	
Storage Temperature	$^{\circ}$ C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	ϕ 5.5x ^L 35 (\leq 5W); ϕ 6.0x ^L 50 (5~10W)	
	Metal Box	^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 0.5dB 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.

PACKAGE DIMENSION (> 10W)



ORDERING INFORMATION (PN)

FPWM-NN NN - C (C) (C) C (C) -H NN P NN (NN) -(C) C C NN - CC/CC

Ref Wavelength	Pass Wavelength	Ref. Fiber	Ref. Fiber2	Mode	Type	Isolation	Average Power	Peak Power	Average Power (Ref)	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
03= 1030nm	12= 1120nm	P= Same Fiber	P= Same Fiber	M= Mux	H=High ER	I= High Iso	03=300mW	01=100W	1= 1W	M=Metal Box	2=PM980Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
05=1053nm		S= Corr. SM Fiber	S= Corr. SM Fiber	D= Demux	S=Standard	Blank for	1= 1W	1= 1kW	2= 2W	Blank for SST	E=PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
06= 1064nm						Standard	10=10W	10=10kW	5=5W	or >10W	Q=20/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC =LC/PC Connector
09=1092nm							20=20W	20=20kW	Blank for Same to Pass		R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector