

## 1120nm High Power 4-port PM Circulator for Pulse Power

### FEATURES

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

### APPLICATIONS

- Fiber Optic Amplifiers
- Fiber Optic Instruments
- WDM Systems
- Dispersion Compensation
- Light Routing

### SPECIFICATIONS

Parameter	Unit	Value	
Center Wavelength	nm	1120	
Operating Wavelength Range	nm	+/-10	
Insertion Loss@ 23 °C	(Typ.)	dB	1.1
	(Max.)	dB	1.8
Optical Path	C Type	-	1→2, 2→3, 3→4 (Loss:4→1 is Uncontrolled)
	D Type	-	1→2, 2→3, 3→4, 4→1
	E Type	-	1→2, 2→3, 3→4 (4→1 is Isolated)
Isolation @ 23 °C	(Typ.)	dB	20
	(Min.)	dB	18
Optical Return Loss	dB	≥45	
Extinction Ratio	dB	≥18	
Work Mode	S Type	-	Can only work in slow axis
	F Type	-	Can work both in Slow and Fast Axis
Fiber Type	-	-	PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L)
	-	-	10/125um PMDC Fiber (O), 15/130um PMDC Fiber (W)
	-	-	20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R)
Fiber Tensile Load	N	5	
Max. Total Average Optical Power	W	0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30	
Max. Peak Power for Pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-20~75	

**Note:** 1. Specifications are for device without connectors; Specifications may change without notice.

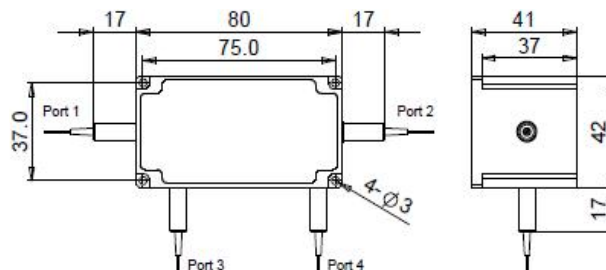
2. To add connectors, IL is 0.5dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

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. Package size may be different for different optical power, configuration and fiber types.

### PACKAGE DIMENSION



### ORDERING INFORMATION (PN)

FPCR-NNNN	- (C)	(C)	-4H NN	P NN	-(NN/NN)	-(NN)	- C	C	NN	-CC/CCC
Center Wavelength	Work Mode	Optical Path	Average Power(Total)	Peak Power	Average Power P2/P3	Average Power P4	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1120~1120nm	F=F Type	D=D Type	05= 500mW	01=100W	1= 1W	1= 1W	2=PM980Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
	Blank for S Type	E=E Type	1= 1 Watts	1= 1kW	2= 2W	2= 2W	E=PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
		Blank for C Type	10= 10 Watts	5=5kW	5=5W	5=5W	Q=20/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
			25= 25 Watts	10=10kW	Blank for P2/3=P1	Blank for None	R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/APC=SC/APC Connector