

## 1900~1970nm High Power 3-port PM Optical Circulator

### 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	A Type	B Type	C Type
Working Wavelength ( $\lambda$ )	nm	1900 $\pm$ 10, 1930 $\pm$ 20, 1950 $\pm$ 20, 1970 $\pm$ 20		
Insertion Loss@23°C	(Typ.)	dB	1.8	1.5
	(Max.)	dB	2.5	1.9
Isolation@23°C	(Typ.)	dB	32	16
	(Min.)	dB	28	14
Extinction Ratio	dB	$\geq$ 18		
Optical Return Loss	dB	$\geq$ 45		
Cross Talk	dB	$\geq$ 40		
Work Mode	S Type	-	Can only work in slow axis	
	F Type	-	-	Both Axis Working
Fiber Type	-	PM1550 Panda Fiber or PM1950 Fiber (V) 10/130um PMDC Fiber (O) or 25/250um PMDC Fiber (R)		
Fiber Tensile Load	N	5		
Maximum Optical Power (CW)	W	1, 2		1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60
Operating Temperature	°C	0~50		
Storage Temperature	°C	-20~75		
Package	Stainless Steel Tube (SST)	mm	$\phi$ 5.5xL35	
Dimension	Metal Box	mm	L120xW12xH10	

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

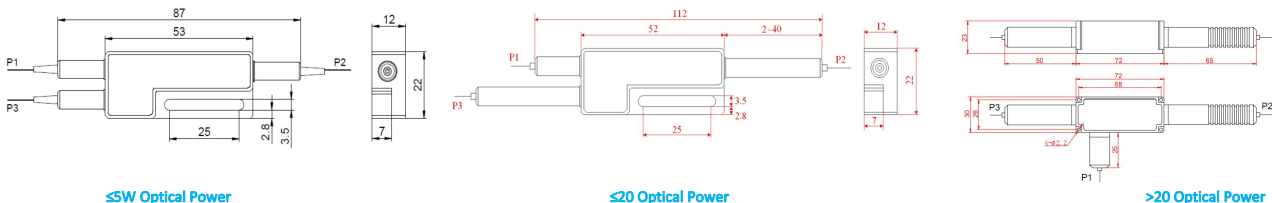
2. To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

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 and fiber types

### PACKAGE DIMENSION (C TYPE)



### ORDERING INFORMATION (PN)

FPCR- NNNN	- (C)	3(C) -HP NN	- (NN)	-(C)	C	C	NN	-CC/CCC	
Center Wavelength	Work Mode	Type	Optical Power	Average Power P2	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1900~ 1900nm	F=F Type	A=A Type	1= 1W	1= 1W	M=Metal Box	2= PM1550 Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
1930~ 1930nm	Blank for S Type	C=C Type	2= 2W	2= 2W	Blank for SST	V= PM1950 Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
1950~ 1950nm		Blank for B Type	5=5W	5=5W	or C Type	O=10/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC =LC/PC Connector
1970~ 1970nm		or C Type(>2W Power)	10=10W	Blank for P2=P1		R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

