1900~1970nm 3-port Optical 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	A Type	B Type	C Type
Center Wavelength (λ)		nm	1900±10, 1930±20, 1950±20, 1970±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	≥18		
Optical Return Loss		dB	≥45		
Cross Talk		dB	≥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		
Max. Average Optical Power		W	0.3, 0.5, 1, 2		0.3, 0.5, 1, 2, 3, 5, 10, 20, 30, 40, 50, 60
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		
Package Dimension	Stainless Steel Tube (SST)	mm	Ø5.5xL35		See Drawing
	Metal Box	mm	L120xW12xH10		

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

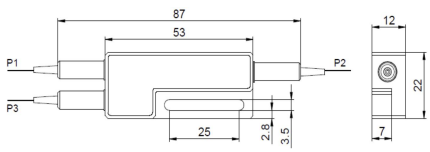
2. To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

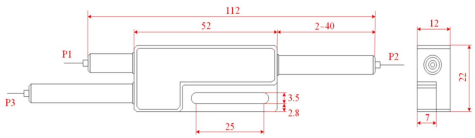
4. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.

5 Package size may be different for different optical power and fiber types

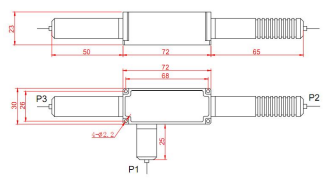
PACKAGE DIMENSION (C TYPE)



≤5W Optical Power



≤20 Optical Power



>20 Optical Power

ORDERING INFORMATION (PN)

FPCR- NNNN - (C) 3 (C) -H NN P NN - (NN) - (C) C C NN - CC/CCC

Center Wavelength	Work Mode	Type	Average Power	Peak Power	Average Power P2	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1900= 1900nm	F=F Type	A=A Type	03=300mW	01=100W	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	1= 1W	1= 1kW	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= 5kW	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	10=10kW	Blank for P2=P1		R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector