1103nm High Power 4-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	Value
Center Wavelength		nm	1103
Operating Wavelength Range		nm	+/-10
Insertion Loss@ 23 °C	(Typ.)	dB	1.0
	(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
Isolation @ 23 °C	(Typ.)	dB	20
(4➔3, 3➔2, 2➔1)	(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
Maximum Optical Power (CW)		W	0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30
Operating Temperature		°C	0~50
Storage Temperature		°C	-10~65

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

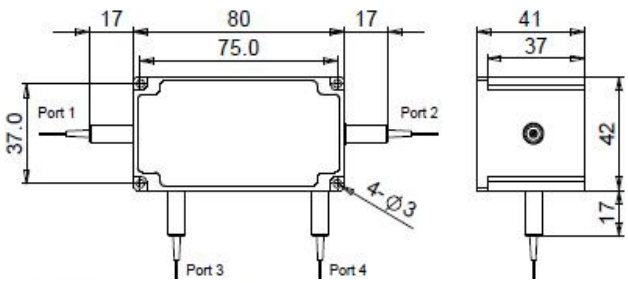
2. To add connectors, IL is 0.5dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

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 maybe different for different fiber type, optical power, etc.

PACKAGE DIMENSION



ORDERING INFORMATION (PN)

FPCR-NNNN - (C) (C) -4HP NN - C C NN - CC/CCC

Center Wavelength	Work Mode	Optical Path	Optical Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1103=1103nm	F=F Type	D=D Type	05= 500mW	2=PM980Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
	Blank for S Type	Blank for C Type	1= 1 Watts	E=PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
			5= 5 Watts	Q=20/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
			20= 20 Watts	R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector