

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

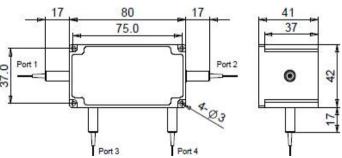
SPECIFICATIONS

Parameter		Unit	Value			
Center Wavelength		nm	1103			
Operating Wavelength Range		nm	+/-10			
Insertion Loss@ 23 °C	(Typ.)	dB	1.0			
	(Max.)	dB	1.8			
	C Type	-	1→2, 2→3, 3→4 (Loss:4→1 is Uncontrolled)			
Optical Path	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			
Work Mode	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 Total Optical Power (CW)		W	0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30			
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)	-4HP NN	- (NN/NN)	- (<mark>NN</mark>)	- C	С	NN	- CC/CCC
Center Wavelength	Work Mode	Optical Path	Optical Power(Total)	Optical Power P2/P3	Optical Power P4	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1103-1103nm	F=F Type	D=D Type	05= 500mW	1- 1W	1- 1W	2=PM980Fiber	B= Bare Fiber	<mark>05=</mark> 0.5m	N=Without Connector
	<i>Blank</i> for S Type	E=E Type	1= 1 Watts	2= 2W	<mark>2=</mark> 2W	E=PM1060L Fiber	L= Loose Tube	10-1.0m	FC/APC=FC/APC Connector
		<i>Blank</i> for C Type	5= 5 Watts	5=5W	5=5W	Q=20/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
			20= 20 Watts	<i>Blank</i> for P2/3=P1	<i>Blank</i> for None	R=25/250 PMDC Fiber	3= 3mm Cable	<mark>20</mark> =2.0m	SC/UPC-SC/UPC Connector
									Rots

Compliant