

# 1120nm 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

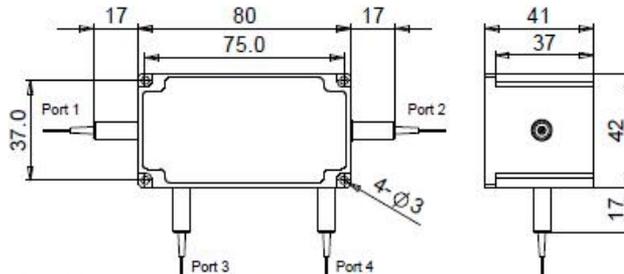
- ▣ Fiber Optic Amplifiers
- ▣ Fiber Optic Instruments
- ▣ WDM Systems
- ▣ Dispersion Compensation
- ▣ Light Routing

## SPECIFICATIONS

Parameter	Unit	Value	
Center Wavelength	nm	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	
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:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.5dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
  - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  - 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.
  - Package size may be different for different optical power, configuration and fiber types.

## PACKAGE DIMENSION



## ORDERING INFORMATION (PN)

FPCR-NNNN	- (C)	(C) -	4HPNN	- (NN/NN)	- (NN)	- C	C	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
1120~1120nm	F=F Type	D=D Type	05= 500mW	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	2= 2W	2= 2W	E=PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
		Blank 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	Blank for P2/3=P1	Blank for None	R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector