

# 1030nm High Power 4-port PM Circulator for Pulse Power

## FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

## APPLICATIONS

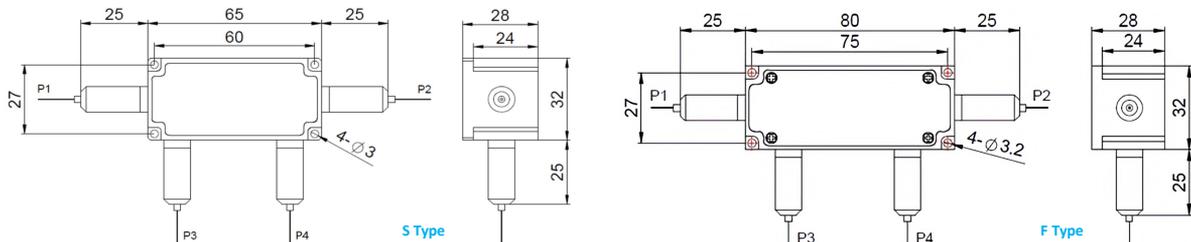
- Fiber Optic Amplifiers
- Fiber Optic Instruments
- WDM Systems
- Dispersion Compensation
- Light Routing

## SPECIFICATIONS

Parameter	Unit	Value
Center Wavelength	nm	1030
Operating Wavelength Range	nm	+/-10
Insertion Loss@ 23 °C	(Typ.)	0.9
	(Max.)	1.7
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.)	23
	(Min.)	20
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) or 15/130um PMDC Fiber (W) 20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R)
Fiber Tensile Load	N	5
Max. Total Average Optical Power	W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30
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

- 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)	-4H NN	P NN	-(NN/NN)	-(NN)	-C	C	NN	-CC/CCC
Center Wavelength	Work Mode	Optical Path	Average Power(Total)	Peak Power	Average Power P2/P3	Average Power P4	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1030-1030nm	F=F Type	D=D Type	03= 300mW	01=100W	1= 1W	1= 1W	2=PM980Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
	Blank for S Type	E=E Type	5= 5 Watts	1= 1kW	2= 2W	2= 2W	E=PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
		Blank for C Type	10= 10 Watts	5=5kW	5=5W	5=5W	Q=20/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
			25= 25 Watts	10=10kW	Blank for P2/3=P1	Blank for None	R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/APC=SC/APC Connector