

1070nm 3-port PM 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	Value
Center Wavelength		nm	1070
Bandwidth		nm	+/-5
Insertion Loss (1→2, 2→3)	(Typ.)	dB	1.9
	(Max.)	dB	2.3
Isolation@ 23°C (3→2, 2→1)	(Typ.)	dB	28
	(Min.)	dB	22
Cross Talk		dB	≥50
Optical Return Loss		dB	≥50
Extinction Ratio	(Typ.)	dB	22
	(Min.)	dB	20
Polarization Alignment		-	Slow 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
Max. Average Optical Power		mW	300
Max. Peak Power for Pulse		kW	0.1, 1, 2, 3, 5, 10, 15, 20
Operating Temperature		°C	0~50
Storage Temperature		°C	-40~85
Package Dimension	Stainless Steel Tube (SST)	mm	∅5.5x ^L 35
	Metal Box	mm	^L 120x ^W 12x ^H 10

- 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. The devices can only work in slow axis and fast axis is blocked.
 4. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
 5. 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

ORDERING INFORMATION (PN)

FPCR-	NNNN	-3H	NN	P	NN	- (C)	C	C	NN	- CC/CCC
<i>Center Wavelength</i>	<i>Average Power</i>	<i>Peak Power</i>	<i>Package</i>	<i>Fiber Type</i>	<i>Fiber Sleeve</i>	<i>Fiber Length</i>	<i>Connector Type</i>			
1070=1070nm	03=300mW	01=100W	M=Metal Box	2=PM980Fiber	B= Bare Fiber	05=0.5m	N=Without Connector			
		1= 1kW	Blank for SST	E=PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector			
		5=5kW		Q=20/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector			
		10=10kW		R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector			