

## 1040nm 4-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	1040	
Operating Wavelength Range	nm	+/-5	
Optical Path	-	1→2, 2→3, 3→4, 4→1	
Insertion Loss @ 23°C	(Typ.)	dB	3.0
	(Max.)	dB	4.2
Isolation @ 23°C	(Typ.)	dB	21
	(Min.)	dB	19
Cross Talk	dB	≥50	
Optical Return Loss	dB	≥50	
Extinction Ratio	(Typ.)	dB	20
	(Min.)	dB	18
Polarization Alignment	-	Slow 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	
Maximum Average Power	mW	100	
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 <sup>L</sup> 35
	Metal Box	mm	<sup>L</sup> 120x <sup>W</sup> 12x <sup>H</sup> 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	-4H	NN	P	NN	N - (C)	C	C	NN	- CC/CCC
Center Wavelength	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type			
1040-1040nm	01-100mW	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			