

## High Power 3-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	1310, 1480, 1550, 1590	
Operating Wavelength Range	nm	+/-20	
Insertion Loss (1→2, 2→3)	(Typ.)	dB	0.6
	(Max.)	dB	0.8
	(Peak.)	dB	40
Isolation (3→2, 2→1)	(Typ.)	dB	30
	(Min.)	dB	20
Cross Talk	dB	≥50	
Optical Return Loss	dB	≥55	
Extinction Ratio	(Typ.)	dB	22
	(Min.)	dB	18
Polarization Alignment	-	Slow Axis	
Fiber Type	-	PM1310/1550 Panda Fiber, 10/125um PMDC Fiber (O) 12/130um PMDC Fiber (T), 20/130um PMDC Fiber (Q) 25/250um PMDC Fiber (R), 25/300um PMDC Fiber (G)	
Fiber Tensile Load	N	5	
Max. Optical Power (CW)	W	1, 2, 3, 5, 10	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	∅5.5x <sup>L</sup> 35 (≤5W); ∅6.0x <sup>L</sup> 50 (5~10W)
	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 0.3dB 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	-3HP	NN	- (C)	C	C	NN	- CC/CCC
Center Wavelength	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type		
1310-1310nm	1-1W	M-Metal Box	2-PM1310/1550 Fiber	B- Bare Fiber	05-0.5m	N-Without Connector		
1550-1550nm	3-3W	Blank for SST	0-10/125 PMDC Fiber	L- Loose Tube	10-1.0m	FC/APC=FC/APC Connector		
1480-1480nm	5-5W		T-12/130 PMDC Fiber	2-2mm Cable	15-1.5m	LC/PC =LC/PC Connector		
1590-1590nm	10-10W		R-25/250 PMDC Fiber	3-3mm Cable	20-2.0m	SC/UPC=SC/UPC Connector		