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	A Type	B Type
Center Wavelength		nm	1310, 1480, 1550, 1590	
Operating Wavelength Range		nm	+/-30	+/-20
Optical Path		-	1➔2, 2➔3, 3➔4	1➔2, 2➔3, 3➔4, 4➔1
Insertion Loss	(Typ.)	dB	0.8	0.7
	(Max.)	dB	1.1	1.0
Isolation	(Typ.)	dB	46	23
	(Min.)	dB	40	20
Cross Talk (1➔3, 2➔4)		dB	≥50	
Optical Return Loss		dB	≥55	
Extinction Ratio	(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	Ø5.5x38 (≤5W); Ø6.0x50 (5~10W)	
	Metal Box	mm	L120xW12xH10	

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.
6. Package size may be different for different optical power, configuration and fiber types.

Ordering Information (PN)

FPCR- NNNN -4 C -HP NN - (NN/NN) - (NN) -(C) C C NN -CC/CCC

Center Wavelength	Type	Optical Power[Total]	Optical Power P2/P3	Optical Power P4	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1310= 1310nm	A=A Type	1= 1W	1= 1W	1= 1W	M=Metal Box	2=PM1310/1550 Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
1550= 1550nm	B=B Type	3=3W	2= 2W	2= 2W	Blank for SST	0=10/125 PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
1480= 1480nm		5=5W	5=5W	5=5W		T=12/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC =LC/PC Connector
1590= 1590nm		10=10W	Blank for P2/3=P1	Blank for None		R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector