

1080nm 4-port High Power 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	1080	
Operating Wavelength Range	nm	+/-10	
Insertion Loss@ 23 °C	(Typ.)	dB	0.9
	(Max.)	dB	1.6
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.)	dB	22
	(Min.)	dB	20
Optical Return Loss	dB	≥45	
Polarization Dependent Loss	dB	≤0.2	
Fiber Type	-	HI1060 Fiber or 10/125um SC Fiber (E) 10/125um DC Fiber (O), 15/130um DC Fiber (W) 20/130um DC Fiber (Q) or 25/250um DC Fiber (R)	
Fiber Tensile Load	N	5	
Maximum Total Optical Power (CW)	W	0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-20~75	

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.

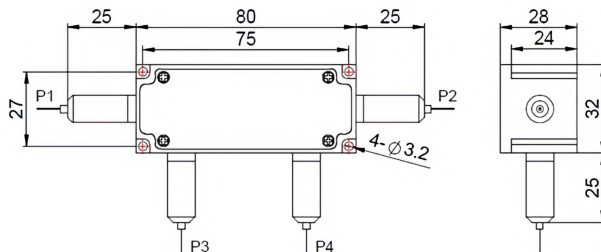
3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

4.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.

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

DIMENSION DRAWING



ORDERING INFORMATION (PN)

FCIR- NNNN - (C) - 4HP NN - (NN/NN) - (NN) - (C) C NN - CC/CCC	Center Wavelength	Optical Path	Optical Power(Total)	Optical Power P2/P3	Optical Power P4	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1080=1080nm	D=D Type	05=500mW	1= 1W	1= 1W	E=10/125 SC Fiber	B= Bare fiber	05=0.5m	N=Without Connector	
	E=E Type	1=1W	2= 2W	2= 2W	Q=20/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector	
	Blank for C Type	5=5W	5=5W	5=5W	R=25/250 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector	
		20=20W	Blank for P2/3-P1	Blank for None	Blank for HI1060 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector	

