1080nm 4-port 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	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
Max. Total Average Optical Power		W	0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30
Max. Peak Power for pulse		kW	0.1, 1, 2, 3, 5, 10, 15, 20
Operating Temperature		°C	0~50
Storage Temperature		°C	-20~75

Note: 1. Specifications are for device without connectors; Specifications may change without notice.

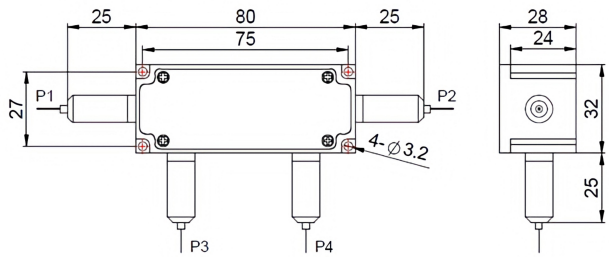
2. To add connectors, IL is 0.5dB higher, RL is 5dB lower.

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)	- 4HNN	PNN	-(NN/NN)	- (NN)	-(C)	C	NN	-CC/CCC
Center Wavelength	*Optical Path*	*Average Power(Total)*	*Peak Power*	*Average Power P2/P3*	*Average Power P4*	*Fiber Type*	*Fiber Sleeve*	*Fiber Length*	*Connector Type*
1080=1080nm	D=D Type	05=500mW	01=100W	1= 1W	1= 1W	E=10/125 SC Fiber	B= Bare fiber	05=0.5m	N=Without Connector
	E=E Type	1=1W	1= 1kW	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	10= 10kW	5=5W	5=5W	R=25/250 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
		20=20W	20=20kW	*Blank* for P2/3=P1	*Blank* for None	*Blank* for HI1060 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

RoHS Compliant