

## 2090nm 3-port Optical Circulator for Pulse Power

### FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability
- Various Bandwidth
- High Optical Power

### APPLICATIONS

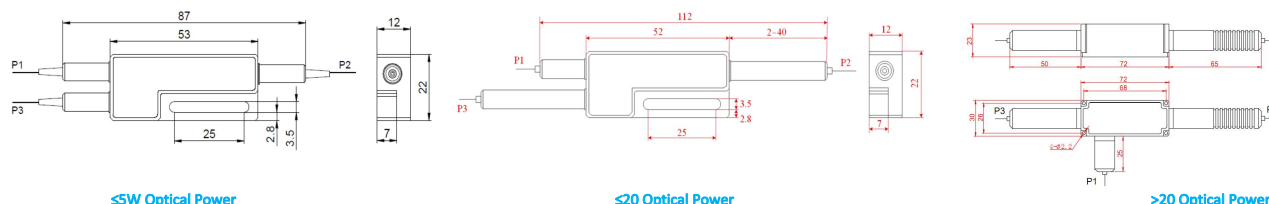
- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Laser Systems
- Research Labs

### SPECIFICATIONS

Parameter	Unit	Value
Center Wavelength ( $\lambda_c$ )	nm	2090
Bandwidth	nm	+/-10
Insertion Loss@23°C	(Typ.)	dB
	(Max.)	dB
Isolation@23°C	(Typ.)	dB
	(Min.)	dB
PDL	dB	$\leq 0.2$
Optical Return Loss	dB	$\geq 45$
Cross Talk	dB	$\geq 40$
Fiber Type	-	SMF-28 Fiber or SM1950 Fiber (V) 10/130um DC Fiber (O) or 25/250um DC Fiber (R)
Fiber Tensile Load	N	5
Max. Average Optical Power	W	0.3, 0.5, 1, 2, 3, 4, 5, 8, 10, 20, 30, 40, 50
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:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.3dB higher, RL is 5dB lower.
  - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  - 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.
  - Package size may be different for different optical power and fiber types

### PACKAGE DIMENSION



### ORDERING INFORMATION (PN)

FCIR-	NNNN	-3H	NN	P	NN	(NN)	-	(C)	C	NN	-	CC/CCC
Center Wavelength	Average Power		Peak Power	Average Power (2-3)		Fiber Type	Fiber Sleeve		Fiber Length	Connector Type		
2090-2090nm	03-300mW		01-100W	1- 1W		V-SM1950 Fiber	B- Bare fiber		05-0.5m	N-Without Connector		
	1- 1W		1- 1kW	2- 2W		O-10/130 DC Fiber	L- Loose Tube		10-1.0m	FC/APC=FC/APC Connector		
	2- 2W		5- 5kW	5-5W		R-25/250 DC Fiber	2- 2mm Cable		15-1.5m	LC/PC=LC/PC Connector		
	10-10W		10-10kW	Blank for Same P1-2		Blank for SMF-28 Fiber	3- 3mm Cable		20-2.0m	SC/UFC=SC/UFC Connector		