

## 2090nm High Power 3-port Optical Circulator

### 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	1.8
	(Max.) dB	2.5
Isolation@23°C	(Typ.) dB	16
	(Min.) dB	14
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
Maximum Optical Power (CW)	W	1, 2, 3, 4, 5, 8, 10, 20, 30, 40, 50
Operating Temperature	°C	0~50
Storage Temperature	°C	-20~75

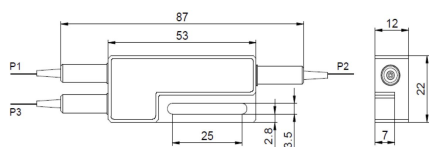
**Note:** 1. Specifications are for device without connectors; Specifications may change without notice.

2. To add connectors, IL is 0.3dB higher, RL is 5dB lower.

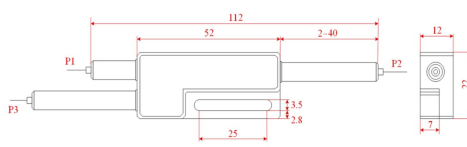
3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

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.

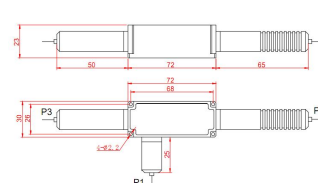
### PACKAGE DIMENSION



≤5W Optical Power



≤20 Optical Power



>20 Optical Power

### ORDERING INFORMATION (PN)

FCIR-	NNNN	-3HP	N	- (C)	C	NN	-	CC/CCC
Center Wavelength	Optical Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type			
2090~2090nm	1~1W	V-SM1950 Fiber	B= Bare fiber	05~0.5m	N=Without Connector			
	2~2W	O=10/130 DC Fiber	L= Loose Tube	10~1.0m	FC/APC=FC/APC Connector			
	5~5W	R=25/250 DC Fiber	2= 2mm Cable	15~1.5m	LC/PC=LC/PC Connector			
	10~10W	Blank for SMF-28 Fiber	3= 3mm Cable	20~2.0m	SC/UPC=SC/UPC Connector			