

## 1900~1970nm High Power 3-port Optical Circulator

### FEATURES

- ▣ High Isolation
- ▣ Low Insertion Loss
- ▣ Epoxy-Free Optical Path
- ▣ High Reliability and Stability
- ▣ Low Profile Packaging

### APPLICATIONS

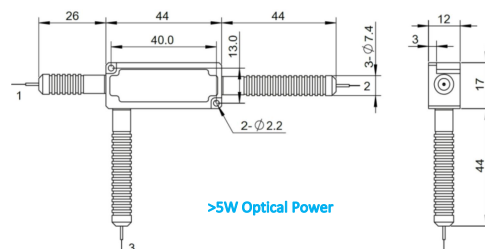
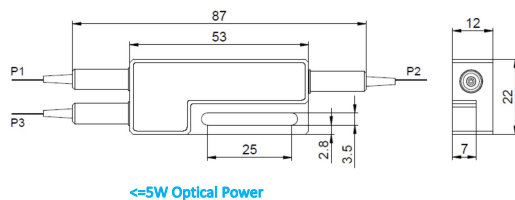
- ▣ Fiber Optic Amplifiers
- ▣ Fiber Optic Instruments
- ▣ WDM Systems
- ▣ Dispersion Compensation
- ▣ Light Routing

### SPECIFICATIONS

Parameter	Unit	Value	
Center Wavelength ( $\lambda_c$ )	nm	1900	1930, 1950, 1970
Bandwidth	nm	+/-10	+/-20
Insertion Loss@23°C	(Typ.)	dB	1.5
	(Max.)	dB	1.9
Isolation@23°C	(Typ.)	dB	16
	(Min.)	dB	14
PDL	dB	≤0.2	
Optical Return Loss	dB	≥45	
Cross Talk	dB	≥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, 5, 10, 15, 20	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-40~85	

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

### PACKAGE DIMENSION



### ORDERING INFORMATION (PN)

FCIR-	NNNN	-3HP	NN	-	(NN)	-	(C)	C	NN	-	CC/CCC
Center Wavelength	Optical Power	Optical Power P2	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type					
1900~ 1900nm	1- 1W	1- 1W	V=SM1950 Fiber	B= Bare fiber	05=0.5m	N=Without Connector					
1930~ 1930nm	3-3W	2- 2W	O=10/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector					
1950~ 1950nm	5- 5W	5-5W	R=25/250 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector					
1970~ 1970nm	10-10W	Blank for P2=P1	Blank for SMF-28 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector					