

1860nm High Power 3-port Polarization Insensitive Optical Circulator

1860nm High Power 3-port Polarization Insensitive Optical Circulator is a fiber passive component built with faraday crystal, which can change signal light transmission path, the signal can be delivered from Port 1 to Port 2, the other signal light from Port 2 to Port 3, the high isolation can block the back reflection light. It's widely used in Fiber Amplifier System, Fiber Optic Sensor and Testing System field. The handling power can be up to 10W CW.

Application:

Fiber Optic Sensor
Fiber Optic Amplifier
Coherent Detecting
Testing System

Features:

High Power
High Isolation
Low Insertion Loss
High Reliability



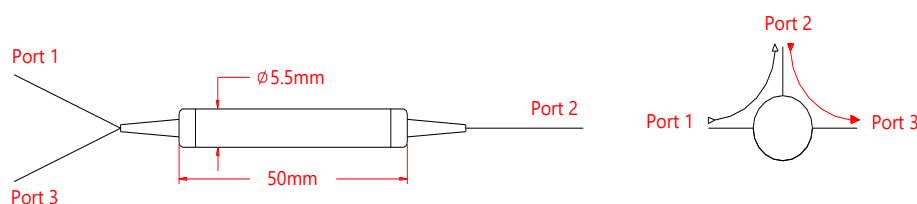
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	1860	nm
Bandwidth	BW	± 10	nm
Typ. Insertion Loss (Port 1 to 2, 2 to 3)	IL	1.2	dB
Max. Insertion Loss (Port 1 to 2, 2 to 3)	IL	1.5	dB
Typ. Isolation (Port 2 to 1, 3 to 2)	Iso	35	dB
Min. Isolation (Port 2 to 1, 3 to 2)	Iso	30	dB
Max. Polarization Dependent Loss	PDL	0.2	dB
Max. Polarization Mode Dispersion	PMD	0.1	ps
Min. Cross Talk	Ct	50	dB
Min. Directivity		50	dB
Min. Return Loss	RL	50	dB
Max. Optical Power (CW)	P	1, 3, 5, 10 or customized	W
Max. Peak Power	P	5, 10 or customized	kW
Max. Tensile Load		5	N
Fiber Type		SMF-28e, SM 1950 or SM-GDF-1550 fiber	-
Operating Temperature	T	-5~70	°C
Storage Temperature	T	-40~85	°C
Package Dimension		$\Phi 5.5 \times L50$ or $L90 \times W12 \times H10$	mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23 °C.

For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower. connectors only 1W CW optical power guarantee.

Drawing:



Ordering Information (Part Number):

HPICIR- WWW - P - HH - FF - J - LL - CC						
WWW	P	HH	FF	J	LL	CC
Wavelength	Port	Handling Power	Fiber Type	Fiber Jacket	Fiber Length	Connector
1850 - 1850nm	3 - 3 Ports	01 - 1W	S1 - SM 1950	B - 250um Bare Fiber	05 - 0.5m	NE - None
1860 - 1860nm		03 - 3W	S2 - SMF-28e	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1870 - 1870nm		05 - 5W	D1 - SM-GDF-1550	2 - 2.0mm Loose Tube	15 - 1.5m	FU - FC/UPC
1880 - 1880nm		10 - 10W	SS - Specify	3 - 3.0mm Loose Tube	20 - 2.0m	SA - SC/APC
1890 - 1890nm		SS - Specify			SS - Specify	
SSSS - Specify						