

1450nm High Power 3-port Polarization Insensitive Optical Circulator

1450nm High Power 3-port Polarization Insensitive Optical Circulator is a fiber passive component built with SM fiber, 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



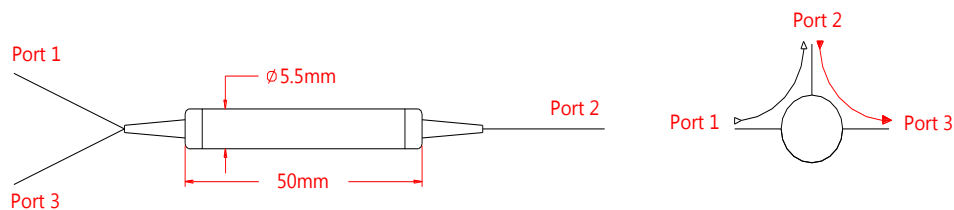
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	1450	nm
Bandwidth	BW	± 30	nm
Typ. Insertion Loss (Port 1 to 2, 2 to 3)	IL	0.8	dB
Max. Insertion Loss (Port 1 to 2, 2 to 3)	IL	1.0	dB
Typ. Isolation (Port 2 to 1, 3 to 2)	Iso	45	dB
Min. Isolation (Port 2 to 1, 3 to 2)	Iso	35	dB
Max. Polarization Dependent Loss	PDL	0.15	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	W
Max. Tensile Load		5	N
Fiber Type		SMF-28e fiber	-
Operating Temperature	T	-5~70	$^{\circ}\text{C}$
Storage Temperature	T	-40~85	$^{\circ}\text{C}$
Package Dimension		$\Phi 5.5 \times L50$	mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23 $^{\circ}\text{C}$.

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- WWWW - P - HH - J - LL - CC					
WWWW	P	HH	J	LL	CC
Wavelength	Port	Handling Power	Fiber Jacket	Fiber Length	Connector
1310 - 1310nm	3 - 3 Ports	01 - 1W	B - 250um Bare Fiber	05 - 0.5m	NE - None
1450 - 1450nm		03 - 3W	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1480 - 1480nm		05 - 5W		15 - 1.5m	FU - FC/UPC
1550 - 1550nm		10 - 10W		20 - 2.0m	SA - SC/APC
1580 - 1580nm		SS - Specify		SS - Specify	SU - SU/APC
					LA - LC/APC
				LU - LC/UPC	
				SS - Specify	