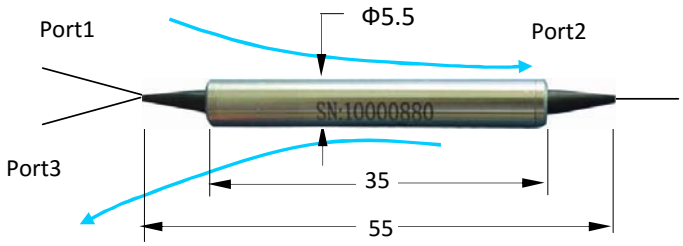
Polarization Maintaining Circulator (PMCIR 1310/1550 1x2)

1. Description

The PMCIR is built use for routing light path.
Inject signal from port1, the light will transmit into Port2; Inject in Port2, light will rounte to Port3.

2. Features

High Isolation
Low Insertion Loss
High stability and reliability



3. Applications

Fiber Lasers
Fiber Amplifiers
Fiber Sensors

4. Specifications

Parameters	Unit	Value	
Stage		Single Stage	Dual Stage
Center Wavelength (λc)	nm	1310 or 1550	
Operating Wavelength Range	nm	±20	±30
Typ. Isolation	dB	30	46
Isolation at Tr*	dB	≥20	≥40
Typ. Insertion Loss at Tr*	dB	0.6	0.7
Insertion Loss at To*	dB	≤0.8	≤0.9
Return Loss (Input/Output)	dB	≥50	
Cross talk	dB	≥50	
Typ. Extinction Ratio	dB	24	25
Extinction Ratio	dB	≥20	≥22
Power handling(CW)	mW	⩽1000	
Tensile Load	N	≤5	
Fiber Type		PM980, PM 1310, 1550 Panda Fiber	
Operating Temperature	℃	-5 to +70	
Storage Temperature	℃	-40 to +85	

Remark
* Tr=Room temperature, To=Operating temperature.
* Above specifications are for device without connector.
* For devices with connectors, 0.3dB higher for IL, 5dB lower for RL and 2dB lower for ER
* The PM fiber and the connector key are aligned to the slow axis.(Default if customer no special request)

5. Ordering Information

PMCIR – 1x2 – □ – □ – □ – □ – □ – □

Wavelength	Stage	Pigtail type	Package	Connector	Fiber length
980nm 1064nm 1310nm 1550nm 1570nm	S=Single stage D=Dual stage	0=Bare 900=0.9mm loose tube 2000=2mm 3000=3mm S=specified	5.5x35	FC/PC, FC/APC SC/PC SC/APC etc.	0.5m 0.8m 1.0m etc.

Example: PMCIR-1x2-1550-S-0-5.5x35-FC/PCx3-1m