

# Polarization Insensitive Optical Circulator (PICIR)

## Description

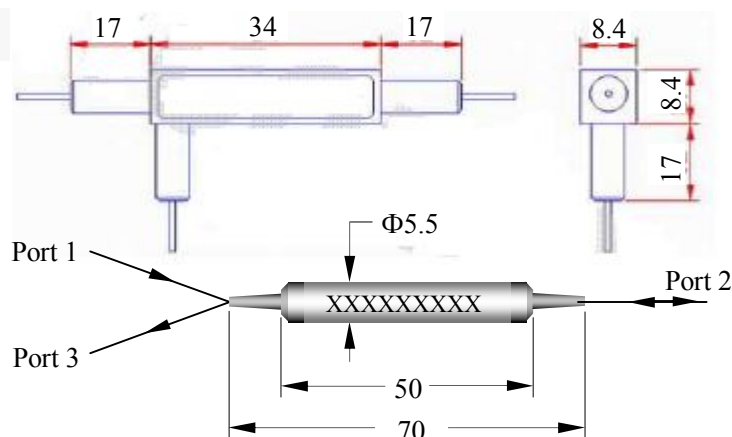
The Polarization Insensitive Optical Circulator is a non-reciprocal devices that routes incoming signals from any port to the next. It is characterized with low insertion loss, high isolation, low PDL, low PMD and excellent environmental stability and reliability. It is widely used in fiber amplifier systems, optical fiber sensors and bi-direction communication systems.

## Key Features

- \* Low insertion loss
- \* High isolation
- \* Low PDL, PMD

## Applications

- \* Optical fiber amplifier
- \* Metropolitan area network
- \* Dispersion compensation
- \* Bi-direction communication systems



## Specifications

Parameter	Type	3 Ports PICIR		4 Ports PICIR
Operating Wavelength (nm)		1064±5	1310 or 1550±20	
Typ. Insertion Loss (1→2, 2→3, 3→4)(dB)		≤2.0	≤0.7	≤0.8
Max. Insertion Loss (1→2, 2→3, 3→4)(dB)		≤2.2	≤0.8	≤1.0
Polarization Dependent Loss (dB)		≤0.2	≤0.1	≤0.2
Polarization Mode Dispersion (ps)		≤0.1	≤0.1	≤0.1
Isolation(2→1, 3→2, 4→3) (dB)		≥23	≥45	≥38
Crosstalk (dB)		≥45	≥50	
Return loss(dB)		≥50		
Power Handling (mW)		≤300	≤500	
Fiber Type		Hi1060	SMF-28e XB	
Operating Temperature(°C)		-5 ~ +50	-5 ~ +70	
Storage Temperature(°C)		-40 ~ +85		
Dimensions (mm)		L34 xW8.4 xH8.4	Φ5.5×L50	Φ5.5×L58

\*IL is 0.3dB (1310~1550nm) or 0.5dB (1064nm) higher, RL is 5dB lower for each connector added.

## Ordering Information

PICIR-X-XXXX-X-XXX-XX/XXX-XX\*XX

- Package Size: 5.5×50, 5.5×68 etc.
- Connector: FC/UPC, FC/APC etc.
- Fiber Code: 001=Hi 1060, 007=SMF-28e XB
- Pigtail Type: 0=250μm, 1=900μm
- Operating Wavelength: 1310nm, or 1550nm etc.
- Port: 3=3 Ports, 4=4 Ports