

## 1550nm RC80 Mini PM Optical Isolator

1550nm RC80 Mini Polarization Maintaining Optical Isolator is a fiber passive component built with RC80 singlemode fiber, it allows light signal to be delivered in one forward direction and avoid the back reflection light, it's widely used in amplifier system, fiber optic sensor system to protect the light source and lower down the optical signal noise. High power type is available upon request.

### Application:

Fiber Optic Amplifier  
Fiber Optic Sensor  
Fiber Amplifier  
Fiber Laser

### Feature

Compact Package  
High Isolation  
Low Insertion Loss  
High Reliability



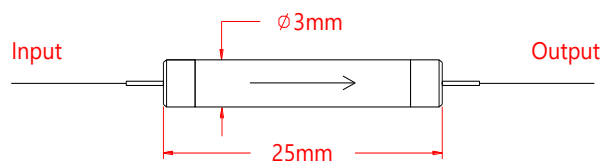
### Specification:

Parameter	Symbol	Value		Unit
Center Wavelength	$\lambda$	1550		nm
Bandwidth	BW	$\pm 15$		nm
Stage		Single Stage	Dual Stage	-
Typ. Insertion Loss	IL	0.6	0.8	dB
Max. Insertion Loss	IL	0.8	1.0	dB
Typ. Peak Isolation	Iso	40	50	dB
Min. Isolation	Iso	28	42	dB
Min. Extinction Ratio	ER	20		dB
Max. Polarization Mode Dispersion	PMD	0.25		ps
Min. Return Loss	RL	50		dB
Max. Optical Power (CW)	P	500		mW
Max. Tensile Load		5		N
Fiber Type		RC80 PM Fiber		-
Operating Temperature	T	-5~70		°C
Storage Temperature	T	-40~85		°C
Package Dimension		$\Phi 3.0 \times L25$		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.

### Drawing:



### Ordering Information (Part Number):

RPMISO- <b>WWW</b> - <b>S</b> - <b>A</b> - <b>J</b> - <b>LL</b> - <b>CC</b>					
<b>WWW</b>	<b>S</b>	<b>A</b>	<b>J</b>	<b>LL</b>	<b>CC</b>
Wavelength	Stage	Working Axis	Fiber Jacket	Fiber Length	Connector
1310 - 1310nm	S - Single Stage	F - Fast Axis Blocked	B - 165um Bare Fiber	05 - 0.5m	NE - None
1450 - 1450nm	D - Dual Stage	B - Both Axes Working		10 - 1.0m	
1480 - 1480nm				15 - 1.5m	
1550 - 1550nm				20 - 2.0m	
1590 - 1590nm				SS - Specify	
1625 - 1625nm					