1450nm RC80 Mini PM Optical Isolator

1450nm 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

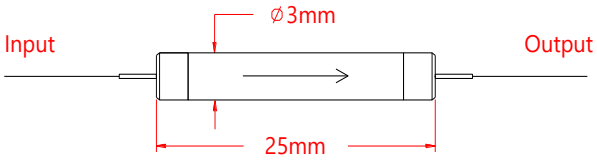
Compact Package
High Isolation
Low Insertion Loss
High Reliability

Specification:

Parameter	Symbol	Value		Unit
Center Wavelength	λ	1450		nm
Bandwidth	BW	±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. Extinctio 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. Tensil Load		5		N
Fiber Type		RC80 PM Fiber		-
Operating Temperature	T	-5~70		℃
Storage Temperature	T	-40~85		℃
Package Dimension		Φ3.0×L25		mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23℃.
For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower.

Drawing:



Ordering Information (Part Number):

RPMISO-WWWW-S-A-J-LL-CC

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