

3-Paddle Fiber Polarization Controller

Opneti's mechanical polarization controller's unique user-friendly design utilizes stress-induced birefringence, can be equal to $\lambda/2$ and $\lambda/4$ optical wave plate. The state-of-polarization (SOP) provided by adjusting the angels of paddles can achieve complete coverage of the Poincare sphere. Flexible structure design is easy to remove to accept different fiber with different wavelength.

Features

All Fiber Structure, Simple Operation, High Reliability Based on Theory of Stress-Induced Birefringence Equal to $\lambda/2$ and $\lambda/4$ Optical Wave Plate Complete Coverage of the Poincare Sphere Low Loss, Wide Operating Wavelength Well-Made, Competitive Price Easy Top-Down Fiber Loading with Paddles

Applications

Coherent Optical Fiber Communication Systems
Fiber-Optic Gyroscope
Coherent Detection
Optical Fiber Transmission System
Optical Fiber Sensor
PDL Measurement

Specifications

Parameters	Unit	Values
Operating Wavelength Range	nm	1260~1625
Design Wavelength	nm	1310, 1550
Number of Paddles	pcs	3
Loop Diamter	mm	56
Paddle Rotation	Deg	±117.5
Mada Filad Diameter	lum l	8.6±0.4 @ 1310nm
Mode Filed Diameter	μm	9.7±0.5 @ 1550nm
Cladding Diameter	μm	125±0.7
Coating Diameter	μm	242±5
Bend Loss	dB	≤0.1
Operating Temperature	℃	-10 ~ +75
Storage Temperature	℃	-40 ~ +84

Package Dimensions



Ordering Information

POC- <u>(1)(1)(1)-2)(2)-3)3</u>

Γ	1	Wavelength	1310; 1550;
	2	Pigtail Type	250=250µm Bare Fiber; 900=900µm Loose Tube; 3000=3mm Loose Tube; XXX=Specify;
	3	Connector Type	FC=FC/UPC; FA=FC/APC; XX=Specify