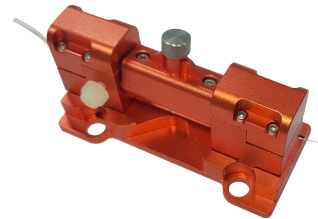


## ROF fiber polarization controllers

Rofea Optoelectronics modulator Mechanical manual fiber polarization controller is an easy-to-use fiber polarization controller suitable for bare fiber or 900um protective sleeve fiber. We can provide three ring mechanical fiber polarization controllers and extruded fiber polarization controllers, which have wide applications in device testing, fiber sensing, quantum communication and other fields This product is mass-produced, with excellent workmanship and high cost-effectiveness, making it an ideal choice for users in the field of experimental research.



Three ring polarization controller



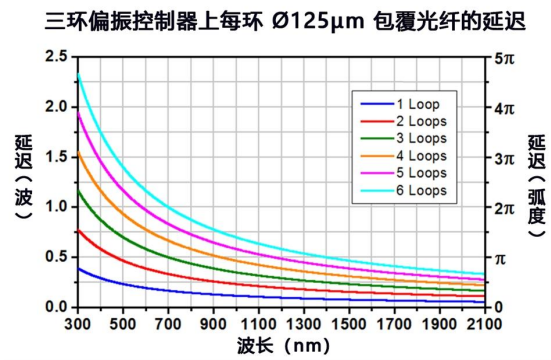
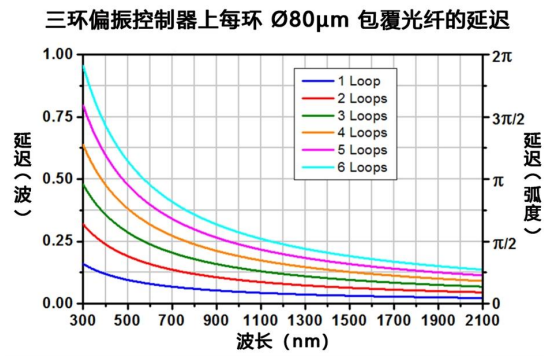
Squeezed polarization controller

### Parameter

Parameter	Value
Ring leaf material	Black plastic steel
Number of rings	three
Ring diameter	2.2 inches (56 millimeters)
Ring leaf rotation	$\pm 117.5^\circ$
size	273.2x25.5x93mm (length x width x height)
Fiber optic	SMF-28-J9
Working wavelength range, <b>a</b>	1260 - 1625nm
Design wavelength, <b>b</b>	1310nm and 1550nm
Mode field diameter	9.2 $\pm$ 0.4 $\mu$ m@1310nm 10.4 $\pm$ 0.5 $\mu$ m @1550nm
Coating diameter	125 $\pm$ 0.7 $\mu$ m
Coating diameter	242 $\pm$ 5 $\mu$ m
numerical aperture	0.14
interlayer	$\emptyset$ 9000 $\mu$ m sealed buffer
Loop configuration, <b>c</b>	3-6-3
Connector	FC/APC
Bending loss	$\leq 0.1$ dB

**a.** Impedance varies with wavelength; **b.** The pre installed fiber optic equipment has been optimized for this wavelength; **c.** Polarization controller for pre installed optical fibers.

## Delay wavelength relationship diagram



The above figure shows the test results of the three ring polarization controller on  $\varnothing 80\mu\text{m}$  and  $\varnothing 125\mu\text{m}$  coated optical fibers, with a controller loop diameter of 56mm. A larger ring diameter is very suitable for optical fibers with high bending losses.