

## Fiber Polarization Scrambler



### FEATURES:

- Compact module
- Random or scan option
- Low PMD
- Low insertion loss
- High return loss
- High extinction ratio maintenance

### APPLICATIONS:

- Polarization control
- State of polarization scanning
- Component testing
- Sensor systems

The Phoenix fiber polarization scrambler is part of the FireBird™ instrumentation range and provides for polarization state scanning in a compact modular format. The simple unit is factory set for scan or random polarization mode, and requires only a bias voltage for operation. Based on the popular Phoenix Photonics all-fiber polarization controller/scanner, this module is a three waveplate all-fiber device with in-line compensation to minimize PMD.

SPECIFICATION:	Units	
Wavelength range	nm	980-1080: 1280-1350: 1510-1620
Insertion Loss <sup>1</sup>	dB	<0.8
PMD	ps	<0.02
Polarization update rate	s	0.5
Insertion loss variation <sup>2</sup>	dB	<0.05
Return Loss <sup>1</sup>	dB	>55
Operating Temperature Range	°C	0 to 50
Storage Temperature	°C	-40 to +85
Scanning mode		Sine, Random
Power		12v/250mA

Notes:

1. Losses do not include connectors.

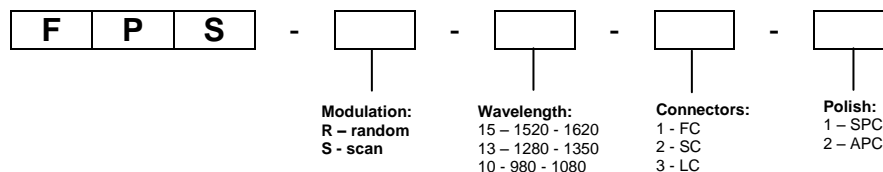
2. The variation of output power for full coverage of the Poincaré Sphere.

### Dimensions:

All dimensions are approximate and may vary slightly.

Width:	75mm
Height:	20mm
Length:	75mm

### ORDER CODE:



**Phoenix Photonics Limited.**

Web: [www.phoenixphotonics.com](http://www.phoenixphotonics.com) Email: [sales@phoenixphotonics.com](mailto:sales@phoenixphotonics.com)

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