

Mini Dynamic Polarization Controller

PolaRITE™ III

In response to customer requests for low profile polarization controllers for system integration, General Photonics made a special effort to design this third generation polarization controller, the PolaRITE™ III, with significantly reduced height and size. The height reduction is especially advantageous for integration in test equipment, fiber sensors, fiber lasers and optical network modules. Due to a special athermal design, the temperature stability is also significantly improved over our early version PolaRITE II. As with other PolaRITE products, the PolaRITE™ III's unique all fiber construction eliminates practically all insertion loss and backreflection. Combined with General Photonics' miniature piezo driver card, it can be controlled either by a digital or analog signal to obtain any desired polarization output from an arbitrary input polarization state.

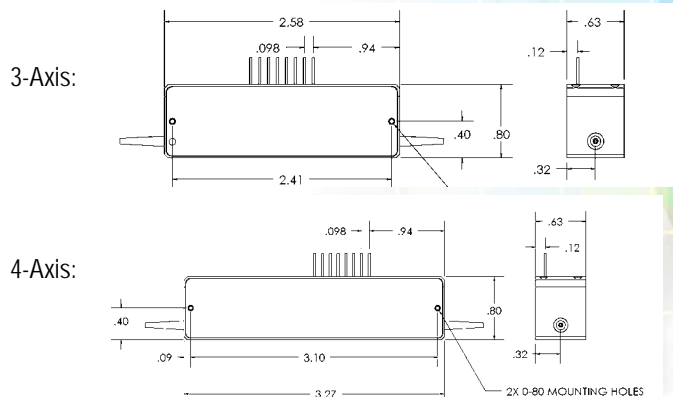


Specifications

Intrinsic Insertion Loss	0.05 dB
Return Loss	>65 dB
Wavelength	1260-1650nm standard, others specify
Rise and Fall Time	30µs max.
V _π at DC (at 23° C)	35V max at 1550nm
Max. Activation Loss ¹	0.01 dB (P grade), 0.05 dB (A grade) with 0-150V applied to all axes
Polarization Mode Dispersion	0.05 ps
Operating Temperature	-25° to 80° C
Storage Temperature	-40° to 85° C
Fiber Pigtail	9/125µm single mode fiber standard, others specify
Electrical Interface	8 pin (25 mil square) with 100 mil pitch
Dimensions	2.58" x 0.80" x 0.63" (3 axes) 3.27" x 0.80" x 0.63" (4 axes)
Maximum Applied Voltage	150 V

(Values are referenced without connectors)

Dimensions (inches):



Applications:

- PMD compensation
- Polarization Stabilization
- Polarization Demultiplexing
- Fiber Sensor
- Fiber Laser Testing Equipment

Unique Features:

- No intrinsic insertion loss
- No intrinsic back reflection
- Fast response
- Compact

Ordering Information:

MPC - XX - XXX - X - X

3X = 3 Channel
4X = 4 Channel

Connector Type:
FC/PC, FC/APC
SC/PC, SC/APC or
NC = No Connectors

P = P grade
A = A grade

Operation Wavelength:

- 1 = 480nm
- 2 = 633nm
- 3 = 780nm
- 4 = 820nm
- 6 = 980-1550nm
- 7 = 1260-1650nm



General Photonics Corp.
5228 Edison Ave.
Chino, CA 91710

Tel: 909.590.5473
Fax: 909.902.5536

Email:
info@generalphotonics.com

Website:
www.generalphotonics.com