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VIAVI Solutions 5G

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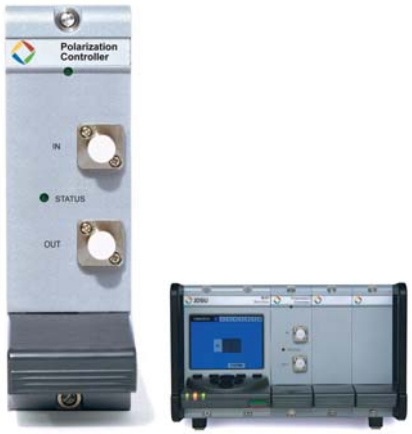
FREECALL 1800 680 680

MAP Polarization Controller



For stand-alone applications, the MAP Polarization Controller may be used as a benchtop

Key Features

- **Complete polarization control**
- **Designed to meet IEEE Std. 802.3aeTM 10 GbE testing requirements**
- **Designed to perform fast polarization dependent loss (PDL) measurements (4-state Mueller method)**
- **Compact single width cassette**
- **Very high angular accuracy and absolute fast axis alignment accuracy**

Applications

- Passive component PDL and polarization mode dispersion (PMD) measurements
- EDFA noise and polarization dependent gain (PDG) measurements
- 10 GbE transceiver worst-case relative intensity noise and dispersion penalty measurements
- Optical signal to noise ratio (OSNR) and extinction ratio (ER) measurements

Safety Information

- This cassette, when installed in a MAP chassis, complies to CE requirements plus UL3101-1 and CAN/CSA-C22.2 No. 1010.1.

The Multiple Application Platform (MAP) Polarization Controller Cassette provides an efficient and precise way of creating any state of polarization. It can also be used as part of a polarization state analyzer.

The single width MAP Polarization Controller Cassette is comprised of three rotating elements: a high extinction ratio polarizer, a quarter-wave plate and a half-wave plate. Each element can be controlled locally from the MAP local interface or remotely through the RS-232 or GPIB. The controller configuration can be offered with a single-mode (SM) or a polarization maintaining fiber (PMF) input.

The polarization controllers can be combined with other instruments to complete measurement test systems such as erbium-doped fiber amplifier (EDFA) or passive component test sets.

Specifications

Parameter	1310 nm	1550 nm
Wavelength range	1260 to 1360 nm	1420 to 1630 nm
Insertion loss (IL)[1,3]	< 1.5 dB	< 1.5 dB
IL variation with wavelength[1,3]	± 0.1 dB	± 0.1 dB
IL variation with rotation[1,3,4]	± 0.05 dB	± 0.05 dB
Return loss (RL)	> 45 dB	> 45 dB
Extinction ratio[2]	> 40 dB	
Fast axis alignment accuracy	< ± 0.5 °	
Angular accuracy	± 0.1 °	
Rotational resolution	0.075 °	
Maximum rotational speed per element	900 °/s	
Maximum optical input power	100 mW	
Calibration	2 years	
Operating temperature	10 to 40 °C	
Storage temperature	-30 to 60 °C	
Humidity	Maximum 95% RH from 10 to 40 °C non-condensing	
Dimensions (W x H x D)	4.06 x 13.24 x 39.5 cm	
Weight	1.6 kg	

1. From 1520 to 1630 nm for the 1550 nm version.
2. Measured with a > 45 dB polarized narrow spectral line source.
3. At 23 °C ± 5 °C.
4. IL variation using an incoherent (broadband) source with both waveplates rotating at differing rates.

Ordering Information

MAPP+10 □□ □ □□

Code	Model
1S	Controller SMF input
1P	Controller PMF input (FC connectors, 1550 nm only)

Code	Wavelength (nm)
3	1260 to 1360
5	1420 to 1630

Code	Connector Type
FP	FC/PC
FA	FC/APC
SC	SC/PC
SU	SC/APC

Test & Measurement Regional Sales

NORTH AMERICA
TEL: 1 866 228 3762
FAX: +1 301 353 9216

LATIN AMERICA
TEL: +55 11 5503 3800
FAX: +55 11 5505 1598

ASIA PACIFIC
TEL: +852 2892 0990
FAX: +852 2892 0770

EMEA
TEL: +49 7121 86 2222
FAX: +49 7121 86 1222

WEBSITE: www.jdsu.com