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VIAVI Solutions 5G

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FREECALL 1800 680 680

MAP DFB Laser - Analog Modulation

For stand-alone applications, the MAP DFB Laser may be used as a benchtop

Key Features

- **10 mW output power**
- **1 GHz of modulation bandwidth**
- **Very low second and third order distortion**

Applications

- CATV reference transmittter
- Multitone receiver test

Safety Information

- This optical source cassette, when installed in the MAP chassis, complies to CE requirements plus UL3101-1 and CAN/CSA-C22.2 No.1010.1, meets the requirements of Class 3B in standard IEC 60825-1(2002), and complies with 21 CFR 1040.1 except deviations per Laser Notice No.50, July 2001.

INVISIBLE LASER RADIATION
AVOID EXPOSURE TO BEAM
CLASS 3B LASER PRODUCT
(IEC 60825-1, 2002)
MAX. 500 mw, 700-1680 nm

Multiple Application Platform (MAP) DFB Laser Cassette with Analog Modulation features 1 GHz of modulation bandwidth and low distortion for accurate CATV receiver testing. The cassette features a built-in laser-bias driver and thermo-electric cooler controller for optimal wavelength and power stability.

The radio frequency (RF) modulation is applied through an SMA connector (50 Ohm impedance) on the front panel of the cassette. The RF path is an unamplified connection directly to the laser through an integrated bias-T.

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Specifications

Parameter	Specification
Maximum radio frequency (RF) input power	+13 dBm
Wavelength	1550.1 nm
Wavelength accuracy	± 0.1 nm
Laser peak output power	10 dBm
Laser power uncertainty [1,2,3]	± 5 %
Stability 24 hours[1,2,3]	± 0.1 dB
Side mode suppression ratio (SMSR)	> 30 dB
Optical isolation	> 30 dB
Optical return loss (RL)	> 40 dB
Relative intensity noise (RIN)	< -157 dB/Hz
Recommended calibration period	1 year
Spectral linewidth	< 3.0 MHz
Bandwidth	1 GHz
Second order distortion[4]	< -34 dBc
Third order distortion[4]	< -44 dBc
Operating temperature	10 to 40 °C
Storage temperature	-30 to 60 °C
Dimensions (W x H x D)	4.06 x 13.24 x 39.5 cm
Weight	0.5 kg

1. At full power.
2. After one hour warm-up.
3. Constant temperature within 25 ± 3°C.
4. $I_F = I_{op}$, 35% OMI, F1= 595.25 MHz, F2=553.25 MHz.

Ordering Information

Sample: MAPL+1A119340FA

MAPL+1A [1] [1][9][3][4][0] [ ][ ]

Code	Number of Channels
1	Single channel

Code	Channel Code
19340	1550.12 nm wavelength

Code	Connector Type
FP	FC/PC
FA	FC/APC

If the configurations available do not meet your performance requirements, please contact our global sales and customer service team to discuss the potential for specialized solutions.

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