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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 transmitter
- 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.

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.

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

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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 $25 \pm 3^\circ\text{C}$.

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		Code		Channel Code		Code		Connector Type
1	Single channel		19340	1550.12 nm wavelength			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.

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