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FREECALL 1800 680 680

MAP Fabry-Perot Laser



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

Key Features

- Dual independent sources available in a single cassette
- Control and monitoring features
- Single-mode (SM)/Multimode (MM) output
- Internal/external modulation

Applications

- Insertion loss (IL)
- Return loss (RL)
- Polarization dependent loss (PDL) tests
- Dense wavelength division multiplexing (DWDM) test

The Multiple Application Platform (MAP) Fabry-Perot Laser Cassette consists of a Fabry-Perot laser diode combined with a high performance laser driver circuitry for optimal wavelength and power stability. It features internal and external modulation capabilities and variable power control. Cassettes can be configured with two independent sources for maximum instrumentation density.

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

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Single-mode (SM) Specifications

Parameter	980 nm	1310 nm	1480 nm	1550 nm	1625 nm	1650 nm
Peak wavelength	980 ± 20 nm	1310 ± 20 nm	1480 ± 20 nm	1550 ± 20 nm	1625 ± 20 nm	1650 ± 20 nm
Spectral width (FWHM)	< 5 nm	< 5 nm	< 5 nm	< 6 nm	< 7 nm	< 7 nm
Total power ^{1,2}	0 dBm	-3 dBm	-3 dBm	-3 dBm	-3 dBm	-3 dBm
Fiber type	Flexcor™	SMF-28	SMF-28	SMF-28	SMF-28	SMF-28
Modulation ³	0.2 to 20 kHz					
Stability (15 minutes) ^{1,2,4}	± 0.005 dB					
Connector type	FC/PC, FC/APC					
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. After 30 minute warm-up.
2. Measured at constant temperature of 23 ± 5°C .
3. Modulation duty cycle is adjustable from 15 % to 85 %. Modulation depth is fixed at 100 %.
4. Measured at full power.

Multimode (MM) Specifications

Parameter	850 nm	1310 nm	1550 nm
Peak wavelength	850 ± 20 nm	1310 ± 20 nm	1550 ± 20 nm
Spectral width (FWHM)	< 8 nm	< 8 nm	< 8 nm
Total power ^{1,2}	-3 dBm	-6 dBm	-6 dBm
Modulation ³	0.2 to 20 kHz		
Stability (15 minutes) ^{1,2,4}	± 0.01 dB		
Connector type	FC/PC, FC/APC		
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. After 30 minute warm-up.
2. Measured at constant temperature of 23 ± 5°C .
3. Modulation duty cycle is adjustable from 15 % to 85 %. Modulation depth is fixed at 100 %.
4. Measured at full power.

Ordering Information
Sample: MAPL+1F072FA
MAPL+1F

Code	Output Power
0	Standard

Code	Wavelength (nm)
1	850
2	980
3	1310
4	1480
5	1550
6	1625
7	1310/1550
8	1650
9	850/1310
A	1550/1625
B	1550/1650
C	1480/1550
J	1490/1625

Code	Fiber Type (µm)
1	50/125
2	62.5/125
7	9/125
8	Flexcor 1060

Code	Connector Type
FP	FC/PC
FA	FC/APC

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 Flexcor is a registered trademark of Corning Inc.

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