MAP Light Emitting Diode Source
(mLED-A1)

Key Features

- Dual independent sources available in a single cassette
- Single-mode (SM)/Multimode (MM) output
- Internal modulation circuitry
- Can be automated when used with MAP-200
- LXI-compliant interfaces and IVI drivers

Applications

- Optical component spectral tests
- Systems compliance tests
- Sensors and imaging

Safety Information

- The MAP LED Source, when installed in a MAP chassis, complies to CE, CSA/UL/IEC61010-1, LXI Class C requirements, 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

The Multiple Application Platform (MAP) Light Emitting Diode Source (mLED-A1) is optimized for the industry-leading JDSU MAP-200 platform. Based on the previous-generation Multiple Application Platform (MAP), the MAP-200 is the first photonic layer lab and manufacturing platform that is LAN Extensions for Instrumentation (LXI)-compliant by conforming to the required physical attributes, Ethernet connectivity, and interchangeable virtual instrument (IVI) drivers. The MAP-200 platform is optimized for density and maximum configurability to meet specific application requirements in the smallest possible foot print.

The mLED-A1 is a high-power LED based light source with variable output power. High output power and excellent wavelength stability, combined with built in modulation circuitry, make this light source suitable for wavelength division multiplexing (WDM) component manufacturing and testing. Other applications of this device include sensing, spectroscopy and amplified spontaneous emissions (ASEs) loading for optical signal-to-noise ratio (OSNR) measurements.

Specifications

Parameter	Single-mode (SM) 1310 nm	Single-mode (SM) 1550 nm	Multimode (MM) 850 nm	Multimode (MM) 1310 nm	Multimode (MM) 1550 nm
Peak wavelength	1310 ±20 nm	1550 ±20 nm	850 ±20 nm	1310 ±20 nm	1550 ±20 nm
3 dB width	>40 nm	>40 nm	—	—	—
Spectral ripple (RB = 0.1 nm)	0.35 dB	0.35 dB	—	—	—
Total power[1, 2]	0 dBm	0 dBm	–3 dBm	–3 dBm	–3 dBm
Modulation	0.2 to 20 kHz				
Stability (15 minutes)[1, 2, 3]	±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 13.26 x 37.03 cm (1.6 x 5.22 x 14.58 in)				
Weight	0.5 kg (1.1 lb)				

1. After 30 minute warm-up
2. Measured at constant temperature of 23 ±5°C
3. Measured at full power

Ordering Information

For more information on this or other products and their availability, please contact your local JDSU account manager or JDSU directly at 1-800-498-JDSU (5378) in North America and +800-5378-JDSU worldwide or via e-mail at customer.service@jdsu.com.

Product Code	Description
Base Options (Required, select one)	
MLED-A1100	LED mono-wavelength laser source
MLED-A1200	LED bi-wavelength laser source
Laser Wavelength Options (Required, select one or two)	
MWL1550A	1550 nm wavelength
MWL1310A	1310 nm wavelength
MWL0850A	850 nm wavelength
Fiber Type Options (Required, select one)[1]	
M100	9/125 fiber type (1310 and 1550 nm only)
M101	50/125 fiber type
M102	62.5/125 fiber type
Connector Options (Required, select one)	
MFP	FC/PC connector type
MFA	FC/APC connector type (M100 only)

1. SM and MM fiber type options cannot be combined in one module

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

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