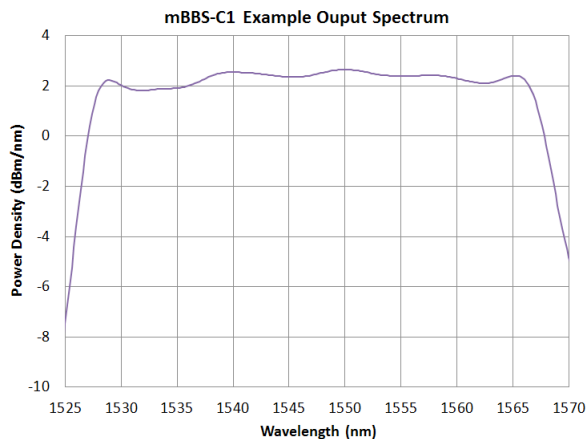




MAP-200 Broadband Light Source, MBBS-C1



The Multiple Application Platform (MAP-200) Broadband Source (mBBS-C1) is a third generation erbium doped fiber based design. The mBBS-C1 delivers 100mW of amplified spontaneous emission (ASE) across the extended C-band. The ultra-stable, depolarized optical output is spectrally flat to within 1.8dB and shows power stability better than 0.02dB. These characteristics make it ideal for several applications including noise loading during OSNR compliance test, power loading of optical amplifiers during gain, and noise figure measurements or passive component characterization. Due to extreme power stability, this source is often used for optical calibration of power meters and variable attenuators.



Features and Benefits

- >100mW depolarized output power over the extended C-band
- Power flatness < 1.8dB
- Ultra-high power stability
- LXI-compliant interfaces and IVI drivers

Applications

- Source for optical component spectral tests
- OSNR noise loading for receiver and systems compliance tests
- Power loading for optical amplifier testing
- Ultra-stable source for Optical calibration systems

Compliance

- The MAP-200 mBBS-C1 module, 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 (2014), and complies with 21 CFR 1040.1 except deviations per Laser Notice No. 50, July 2001



The mBBS-C1 module, as part of the MAP-200 family, is an Ethernet or GPIB modular instrument that can be directly managed from your PC-based automation system. A member of the LightDirect Family of MAP-200 modules, the mBBS-C1 can be deployed in the compact MAP-220C 2-slot chassis or the larger 3 and 8 slot rack-mount chassis systems (MAP-230B or MAP-280). Alongside many other modules, such as amplifiers, precision attenuators, power meters and spectrum analyzer; the MAP-200 is the ideal, modular photonics test platform for 100G+ test applications.



MAP-200 LightDirect Family of modules

Specifications

Parameter ¹	
Operating Wavelength Range	1525nm – 1568nm
Saturated Power ²	≥ 20dBm
Spectral Gain Flatness (spectral range 1529nm – 1565nm)	≤ 1.8dB
Total Power Stability ³	≤ 0.02dB
Laser Safety Class ⁴	1M
Fiber Type ⁵	Single Mode Fiber
Connector Type	FC/APC
Operation temperature	0 – 40 °C
Operation humidity	Maximum 95% RH, 0 to 40°C non condensing
Storage temperature	-30 to 60 °C
Dimensions (W x H x D)	4.06cm x 13.26cm x 37.03cm
Weight	2.3kg

1. All optical measurements were done after minimum 30 minutes warming up measured at constant temperature of 23±3°C

2. Measured with OPM set at wavelength of 1550nm

3. Measured as peak to peak variation within 30 minutes

4. Classified as per standard IEC60825-1:2014

5. For IEC60793-2-50 Type B1.3/ ISO 11801 OS2 compliant fiber, i.e. Corning SMF-28e

Part Numbers

Part Number	
MBBS-C11CA-M100-MFA	Broadband source, Extended C-band, Flattened with FC/APC connectors



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