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Data Sheet
August 7, 2026

JDSU

JDSU MAP-200 Erbium-Doped Fiber Amplifier mEDFA-A1

The JDSU MAP-200 mEDFA-A1 is an Erbium-Doped Fiber Amplifier (EDFA) module designed for use in the JDSU MAP-200 platform. It boosts optical signal power within the 1550 nm wavelength range, crucial for extending transmission distances and improving signal quality in optical communication systems.

MODEL JDSU mEDFA-A1	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU mEDFA-A1	LISTING https://aumictechlabs.com/products/medfa-a1-2/

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The JDSU MAP-200 mEDFA-A1 is an Erbium-Doped Fiber Amplifier module engineered for integration into the MAP-200 platform. It amplifies optical signals in the C-band and L-band, delivering configurable gain, low noise performance, and saturated output power up to 21 dBm. The module supports pre-amplifier, booster, in-line, and DWDM multichannel configurations, making it suitable for both single-channel SONET/SDH systems and dense wavelength division multiplexing transmission.Auto gain and power control options streamline operation across diverse test and deployment scenarios. The mEDFA-A1 integrates with LXI-compliant MAP-200 mainframes via Ethernet connectivity and IVI drivers, enabling remote automation and front-panel control. Built-in monitoring and alarms provide real-time signal integrity oversight.Compliance

certifications include CE, CSA/UL/IEC61010-1, IEC 60825-1 (2002/2014) Class 3B, and 21 CFR 1040.1, ensuring safe operation in laboratory, manufacturing, and field environments.Technical Specifications Amplifier Type: Erbium-Doped Fiber Amplifier (EDFA) Operating Wavelength Range: C-band and L-band; models cover 1528 nm to 1565 nm Saturated Output Power: 14 dBm to 21 dBm Noise Figure: 3.5 dB to 3.7 dB Gain Flatness: Better than 1.4 dB to 2.0 dB Gain: High gain capabilities Control: Auto gain and power control optionsKey Features Multiple configurations: pre-amp, booster, in-line, booster-high power, mid-span access booster, booster-DWDM, and low noise variants Single-channel and DWDM multichannel support Built-in monitoring and alarms Front-panel or remote control interface Fully compatible with LXI Class C requirementsTypical Applications DWDM transmission and multi-channel optical systems SONET/SDH single-channel amplification Optical Signal-to-Noise Ratio (OSNR) testing and characterization Sensitive signal amplification in automated test environments Power saturation recovery analysisCompatibility & Integration Platform: JDSU MAP-200 (MAP-280, MAP-280R, MAP-230B, MAP-220C) Interface: LXI-compliant Ethernet with IVI driver support Certifications: CE, CSA/UL/IEC61010-1, IEC 60825-1 Class 3B, 21 CFR 1040.1

Features & description

From manufacturer datasheet

Features

• Platform: MAP-200 LXI Class C; IVI drivers • Saturated output (by option): >14 to >21 dBm • Noise figure: as low as <3.7 dB (pre-amp 1550 class) to <5.5 dB (DWDM/L-band options) • Small-signal gain: >22 to >37 dB depending on model • C-band options: 1528–1565 nm class (1550/1552/1554/1558 codes) • L-band options: 1565–1610 nm class (1590/1592/1594 codes) • PDL: <0.2 to <0.3 dB max by model; PMD <0.4 to <0.65 ps • Spectral gain flatness (DWDM 1558): <2.0 dB p-p • Monitors/alarms on selected booster/DWDM codes • Connectors: MFP FC/PC or MFA FC/APC • Size: ~4.06 × 13.26 × 37.03 cm; weight ~1.3 kg • Laser safety: Class 3B in MAP chassis (IEC 60825-1)

MEDFAA1 Characteristics / Specifications

PARAMETER	VALUE
Model	mEDFA-A1
Manufacturer	JDSU / VIAVI Solutions
Instrument Type	MAP-200 Erbium-Doped Fiber Amplifier
Family	mEDFA-A1
Alias	mEDFA-A1; MAP-200 EDFA Optical C/L-band EDFA cassette; 14–21 dBm sat class; NF to 3.7 dB Operational Notes Prefer VIAVI MAP EDFA datasheet mapedfa-ds. Read option code on cassette (e.g. A15520/A15580) for exact power/band.
Platform	MAP-200 LXI Class C; IVI drivers
Saturated output (by option)	>14 to >21 dBm
Noise figure	as low as <3.7 dB (pre-amp 1550 class) to <5.5 dB (DWDM/L-band options)
Small-signal gain	>22 to >37 dB depending on model
C-band options	1528–1565 nm class (1550/1552/1554/1558 codes)
L-band options	1565–1610 nm class (1590/1592/1594 codes)
PDL	<0.2 to <0.3 dB max by model; PMD <0.4 to <0.65 ps
Spectral gain flatness (DWDM 1558)	<2.0 dB p-p
Connectors	MFP FC/PC or MFA FC/APC
Size	~4.06 × 13.26 × 37.03 cm; weight ~1.3 kg
Laser safety	Class 3B in MAP chassis (IEC 60825-1)

MEDFAA1 Specifications

PARAMETER	VALUE
Applications	In-line/pre-amp/booster emulation; DWDM multi-channel and SONET/SDH single-channel test; OSNR experiments on MAP-200.
Key Features	- Platform: MAP-200 LXI Class C; IVI drivers
Technical Specifications	Model: mEDFA-A1
Optical	C/L-band EDFA cassette; 14–21 dBm sat class; NF to 3.7 dB
Operational Notes	Prefer VIAVI MAP EDFA datasheet mapedfa-ds. Read option code on cassette (e.g. A15520/A15580) for exact power/band.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

PARAMETER	VALUE
Model	mEDFA-A1
Manufacturer	JDSU / VIAVI Solutions
Instrument Type	MAP-200 Erbium-Doped Fiber Amplifier
Family	mEDFA-A1
Alias	mEDFA-A1; MAP-200 EDFA

Optical
C/L-band EDFA cassette; 14–21 dBm sat class; NF to 3.7 dB

Operational Notes
Prefer VIAVI MAP EDFA datasheet mapedfa-ds. Read option code on cassette (e.g. A15520/A15580) for exact power/band.

Laser Safety

Laser safety: Class 3B in MAP chassis (IEC 60825-1) Technical Specifications Model: mEDFA-A1 Manufacturer: JDSU / VIAVI Solutions Instrument Type: MAP-200 Erbium-Doped Fiber Amplifier Family: mEDFA-A1 Alias: mEDFA-A1; MAP-200 EDFA Optical C/L-band EDFA cassette; 14–21 dBm sat class; NF to 3.7 dB Operational Notes Prefer VIAVI MAP EDFA datasheet mapedfa-ds. Read option code on cassette (e.g. A15520/A15580)

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: **sales@aumictech.com** · +1 (484) 841-9341

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