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Data Sheet

August 12, 2026

JDSU

JDSU MAP-200 W mTBF-A1 1520-1630nm Tunable Bandpass Filter Module BERT

The JDSU MAP-200 W mTBF-A1 is a tunable bandpass filter module designed for BERT (Bit Error Rate Tester) applications. It operates in the 1520-1630nm wavelength range, offering precise filtering for optical signal analysis. This module is ideal for characterizing optical components and systems in telecommunications and photonics research.



MODEL

**JDSU MAP-200 W
mTBF-A1**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

**MAP-200 W
mTBF-A1**

LISTING

<https://aumictechlabs.com/products/map-200-w-mtbf-a1-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The JDSU MAP-200 W mTBF-A1 is a tunable bandpass filter module designed for Bit Error Rate Tester (BERT) integration. Operating across the 1520–1630 nm wavelength range, it delivers precise optical signal filtering essential for accurate characterization of optical components and telecommunications systems. The module enables wavelength-selective isolation and dynamic passband adjustment without hardware modification, supporting detailed signal analysis across the C-band spectrum.

Technical Specifications
Product Name: JDSU MAP-200 W mTBF-A1
Tunable Bandpass Filter Module
Filter Type: Tunable Bandpass Filter
Wavelength Range: 1520 nm to 1630 nm
Application: Bit Error Rate Testing (BERT)
Key Features
Tunable center wavelength across the full 1520–1630 nm range
Dynamic passband adjustment for multi-wavelength signal

analysis Precise wavelength selection for isolated optical signal examination Direct integration into BERT measurement frameworks Support for optical transmitter, receiver, amplifier, and passive component characterization Verification and troubleshooting of optical communication system performance Typical Applications Telecommunications research and development laboratories Optical component manufacturing test environments Photonics research and technology development High-speed optical network performance analysis Compatibility & Integration The MAP-200 W mTBF-A1 interfaces with BERT systems and optical test equipment supporting compatible form factors and control protocols. Specific compatibility with host BERT platforms depends on available I/O and communication mechanisms.

Features & description

From manufacturer datasheet

Features

• Wavelength range: 1520 to 1630 nm • Wavelength resolution: 0.005 nm • Wavelength accuracy: ± 0.2 nm • Optical shape: Gaussian • -3 dB bandwidth options: 0.11 nm $\pm 15\%$ (C); 0.25 nm $\pm 15\%$ (G); 0.55 nm $\pm 15\%$ (K) • 3/20 dB ratio: 0.40 ± 0.05 (C); 0.31 ± 0.05 (G/K) • Insertion loss 1520–1610 nm: <6.0 dB (C) / <5.8 dB (G/K); 1610–1630 nm: <8.0 dB • Add 1.2 dB IL for tap or peak-search option • Input power: 300 mW standard or 1 W high-power (at 23 $\pm$ 5 °C) • Return loss: >45 dB at selected wavelength • PDL (1520–1630 nm): <0.3 dB (-20 to +20 dBm input class) • Tuning speed: >5 nm/s • Peak-to-average background noise: >45 dB • PMD: <0.3 ps; group delay variation in -3 dB BW: <5 ps • Options: peak search; 10% tap / power monitor • Size: 8.1 $\times$ 13.26 $\times$ 37.03 cm; weight 2.3 kg • Operating temp: 10 to 35 °C; cal period 1 year • Host: MAP-200 chassis (LXI / IVI)

Applications

• ASE / spontaneous emission suppression • Amplifier characterization (to 1 W input with high-power option) • BER testing and OSNR measurement • Tunable laser-based wavelength isolation

MAP200WMTBFA1 Characteristics / Specifications

PARAMETER	VALUE
Model	MAP-200 W mTBF-A1
Manufacturer	JDSU / Viavi
Instrument Type	MAP Tunable Bandpass Filter Module
Alias	mTBF-A1; MTBF-A1; JDSU mTBF-A1
Wavelength	1520–1630 nm
Resolution	0.005 nm
BW options	0.11 / 0.25 / 0.55 nm
IL 15	1610 nm: <5.8–6.0 dB
Input power	300 mW standard or 1 W high-power (at 23±5 °C)
PDL	<0.3 dB
Weight	2.3 kg Notes Specs from Viavi/JDSU MAP Tunable Filter (mTBF-A1) data sheet. Confirm C/G/K bandwidth and standard vs high-power option on the module.
Wavelength range	1520 to 1630 nm
Wavelength resolution	0.005 nm
Wavelength accuracy	±0.2 nm
Optical shape	Gaussian
–3 dB bandwidth options	0.11 nm ±15% (C); 0.25 nm ±15% (G); 0.55 nm ±15% (K)
3/20 dB ratio	0.40 ±0.05 (C); 0.31 ±0.05 (G/K)
Insertion loss 1520–1610 nm	<6.0 dB (C) / <5.8 dB (G/K); 1610–1630 nm: <8.0 dB
Return loss	>45 dB at selected wavelength
PDL (1520–1630 nm)	<0.3 dB (–20 to +20 dBm input class)
Tuning speed	>5 nm/s
Peak-to-average background noise	>45 dB
PMD	<0.3 ps; group delay variation in –3 dB BW: <5 ps
Options	peak search; 10% tap / power monitor

PARAMETER	VALUE
Size	8.1 × 13.26 × 37.03 cm; weight 2.3 kg
Operating temp	10 to 35 °C; cal period 1 year
Host	MAP-200 chassis (LXI / IVI)
Bandwidth	models C/G/K (0.11 / 0.25 / 0.55 nm –3 dB); standard 300 mW or high-power 1 W input.

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	MAP-200 W mTBF-A1
Manufacturer	JDSU / Viavi
Instrument Type	MAP Tunable Bandpass Filter Module
Alias	mTBF-A1; MTBF-A1; JDSU mTBF-A1

Specifications

PARAMETER	VALUE
Wavelength	1520-1630 nm
Resolution	0.005 nm
BW options	0.11 / 0.25 / 0.55 nm

IL 1520-1610 nm: <5.8-6.0 dB

Specifications

PARAMETER	VALUE
Input power	300 mW or 1 W
PDL	<0.3 dB
Weight	2.3 kg

Notes

Specs from Viavi/JDSU MAP Tunable Filter (mTBF-A1) data sheet. Confirm C/G/K bandwidth and standard vs high-power option on the module.

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

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.