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Data Sheet

August 7, 2026

JDSU

JDSU Tunable Filter (mTBF-A1) / MTBF-A1CH0

The JDSU Tunable Filter (mTBF-A1) / MTBF-A1CH0 is a tunable bandpass filter designed for selecting specific wavelengths of light in optical systems. It features a compact design and precise wavelength control, making it suitable for applications such as optical channel monitoring, signal routing, and spectral shaping.



MODEL

JDSU MTBF-A1CH0

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MTBF-A1CH0

LISTING

<https://aumictechlabs.com/products/mtbf-a1ch0-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The JDSU Tunable Filter (mTBF-A1) / MTBF-A1CH0 is a tunable bandpass filter engineered for precise wavelength selection in optical systems. It isolates specific wavelengths, suppresses amplified spontaneous emissions (ASE), and enables precise spectral control across the C-band and extended L-band. The filter integrates into the MAP-200 platform - an LXI Class C compliant system - and supports hot-swappable cassette installation without system shutdown. Its high tuning resolution and low insertion loss make it ideal for optical communications testing, amplifier characterization, BER measurement, and OSNR analysis. Technical Specifications Wavelength Range: 1520 to 1630 nm Tuning Resolution: 0.005 nm Tuning Speed: > 5 nm/s Wavelength Accuracy: ± 0.2 nm -3 dB Bandwidth Options: 0.11 nm (Model C), 0.25 nm (Model G), 0.55 nm (Model K) Insertion Loss: < 6.0 dB (1520–1610 nm); 45 dB Polarization Dependent Loss: < 0.3 dB Polarization Mode Dispersion: < 0.3 ps Group Delay Variation: 45 dB Peak Search Accuracy: < 0.2

dB from output peak power Optical Shape: Gaussian 3/20 dB Ratio: 0.40 ± 0.05 (Model C); 0.31 ± 0.05 (Models G and K) Key Features Hot-swappable cassette design eliminates downtime during module changes Dynamic MAP firmware automatically identifies installed cassettes Optional peak search function locates maximum transmission power within tuning range or user-defined local maximum Optional 10% tap output for independent power monitoring Operating temperature range: 10 to 35°C Typical Applications Optical amplifier characterization Bit error rate (BER) testing Optical signal-to-noise ratio (OSNR) measurements Wavelength-selective signal isolation in optical test systems Compatibility & Integration Optimized for the JDSU MAP-200 platform. Compliant with CE, CSA/UL/IEC61010-1, and LXI Class C standards when installed in a MAP chassis. Physical dimensions: $8.1 \times 13.26 \times 37.03$ cm; weight: 2.3 kg.

MTBFA1CH0 Characteristics / Specifications

PARAMETER	VALUE
Model	mTBF-A1 / MTBF-A1CH0
Manufacturer	JDSU / VIAVI Solutions
Instrument Type	MAP-200 Tunable Bandpass Filter
Family	mTBF-A1
Alias	mTBF-A1; MTBF-A1CH0 Optical 1520–1630 nm; 0.11 nm BW (CH0); 1 W max; 0.005 nm resolution Operational Notes Prefer VIAVI MAP Tunable Filter datasheet maptbfds. Confirm connector option (MFP/MFA/MSU) on cassette.
Wavelength range	1520 to 1630 nm
Optical shape	Gaussian
–3 dB bandwidth options	C 0.11 nm; G 0.25 nm; K 0.55 nm (±15% at 1550 nm)
Wavelength resolution	0.005 nm; accuracy ±0.2 nm
Tuning speed	>5 nm/s
IL (1520–1610 nm)	<6.0 dB (C) / <5.8 dB (G/K); 1610–1630 nm <8.0 dB
Peak-to-average background	>45 dB
Input power	300 mW standard or 1 W high-power options
Size	~8.1 × 13.26 × 37.03 cm; weight ~2.3 kg
Bandwidth	options: C 0.11 nm; G 0.25 nm; K 0.55 nm (±15% at 1550 nm) - Wavelength resolution: 0.005 nm; accuracy ±0.2 nm - Tuning speed: >5 nm/s - IL (1520–1610 nm): <6.0 dB (C) / <5.8 dB (G/K); 1610–1630 nm <8.0 dB - RL: >45 dB; PDL: <0.3 dB; PMD: <0.3 ps - P

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	mTBF-A1 / MTBF-A1CH0
Manufacturer	JDSU / VIAVI Solutions
Instrument Type	MAP-200 Tunable Bandpass Filter
Family	mTBF-A1
Alias	mTBF-A1; MTBF-A1CH0

Optical

1520-1630 nm; 0.11 nm BW (CH0); 1 W max; 0.005 nm resolution

Operational Notes

Prefer VIAVI MAP Tunable Filter datasheet maptbfds. Confirm connector option (MFP/MFA/MSU) on cassette.

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.