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Data Sheet

August 14, 2026

ANRITSU

Anritsu ML2419A – Power Meter Range Calibrator

Anritsu ML2419A Power Meter Range Calibrator The Anritsu ML2419A is a dedicated range calibrator for ML2430A and ML248xx/ML249xA series power-meter signal channels. OEM Appendix A lists five voltage ranges from plus 7 to minus 70 dB relative to 1.0000 V, plus or minus 0.002 dB range-1 upper-level setpoint accuracy, and a 50 MHz 0 dBm / 1.000 mW N-female reference with plus or minus 1.2 percent per year power accuracy. Annual verification of ML2400-series meter channels and approximate 50 MHz 0 dBm sensor checks. The Anritsu ML2419A is a dedicated range calibrator for ML2430A and ML248xx/ML249xA series power-meter signal channels. OEM Appendix A lists five voltage ranges from plus 7 to minus 70 dB relative to 1.0000 V, plus or minus 0.002 dB range-1 upper-level setpoint accuracy, and a 50 MHz 0 dBm / 1.000 mW N-female reference with plus or minus 1.2 percent per year power accuracy. Annual verification of ML2400-series meter channels and approximate 50 MHz 0 dBm sensor checks. Range 1: plus 7 to minus 12 dB relative to 1.0 V



MODEL

Anritsu ML2419A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

ML2419A

LISTING

<https://aumictechlabs.com/products/ml2419a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu ML2419A is a power meter range calibrator engineered to verify measurement channels in Anritsu ML2400A Series Power Meters. It delivers a stable, accurate reference signal at 50 MHz and 0 dBm (1.000 mW) to ensure measurement reliability in metrology and calibration

facilities. Remote control via the power meter enables fully automated calibration workflows.

Technical Specifications

Reference Signal Output Nominal frequency: 50 MHz Reference power level: 0 dBm / 1.000 mW Output connector: Front panel 50 Ω precision N-type (female) Output accuracy: ± 1.2 % per year Frequency accuracy: < 1 %

Signal Channel Ranges The ML2419A provides voltage testing across five overlapping ranges, spanning +7 dB to -70 dB relative to 1.0 V: Range 1: +7 dB to -12 dB (DC voltage) Range 2: -11 dB to -28 dB (DC voltage) Range 3: -25 dB to -44 dB (250 Hz chopped voltage) Range 4: -41 dB to -58 dB (250 Hz chopped voltage) Range 5: -56 dB to -70 dB (250 Hz chopped voltage) Ranges 3, 4, and 5 employ 250 Hz voltage chopping to minimize offset and drift errors. The power meter applies a 309.5 gain factor in chopped-mode operation. Testing covers maximum and minimum power levels per range, except Range 5, which tests at maximum and 30 % of maximum. Adjacent ranges overlap, allowing single-voltage testing at boundary dB levels.

Connectivity & Control Sensor A connector: 12-pin circular precision connector for 1.5 m power sensor cables Remote operation via power meter menu system Power Supply AC input: 115 V / 60 Hz or 230 V / 50 Hz (selectable) Input range: 90–132 V or 180–264 V, 47–63 Hz Maximum consumption: 6 VA Fuse: 0.1 A, 250 V, antisurge (T) Front-panel LED indicates AC power status Safety category: Installation (Overvoltage) Category II, Insulation Category I

Physical Dimensions Width: 213 mm (8.39 in) Height: 88 mm (3.46 in) Depth: 250 mm (9.84 in) Weight: 2.2 kg (4.84 lb)

Key Features Five calibration ranges with overlapping coverage from +7 dB to -70 dB Dual operational modes: DC voltage (Ranges 1–2) and 250 Hz chopped voltage (Ranges 3–5) N-type RF output for direct sensor calibration reference Full remote control integration with ML2400A Series power meters Compact benchtop form factor

Typical Applications Power meter range verification and calibration traceability Sensor signal channel testing across dynamic power ranges Automated calibration procedures in standards labs Periodic validation of RF power measurement systems

Compatibility & Integration The ML2419A integrates directly with Anritsu ML2400A Series Power Meters via the 12-pin sensor connector and can be controlled entirely through the power meter's menu interface, eliminating the need for separate control hardware.

ML2419A Characteristics / Specifications

PARAMETER	VALUE
Range	plus 7 to minus 12 dB relative to 1.0 V
Range 1 Upper Level	plus 6.990 dB
Range 1 Lower Level	minus 11.834 dB
Range 5 Lower Level	minus 61.726 dB
Range 1 Upper Accuracy	plus or minus 0.002 dB
Other Levels Accuracy	plus or minus 0.003 dB worst case
Temperature Stability Range	plus or minus 10.612 ppm perCLong Term Drift Range 1: plus or minus 5.003 ppm per month
Chop Frequency	250 Hz ranges 3 4 5
External Gain Chopped	309.5 expected by meter
Reference Power	0 dBm / 1.000 mW
Reference Power Accuracy	plus or minus 1.2 percent per year
Reference Frequency	50 MHz nominal
Reference Frequency Accuracy	less than 1 percent
Rf Connector	50 ohm precisionNtype female
Dimensions	213 W x 88 H x 250 D mm
Mass	2.2 kg
Line Power	230 V 50 Hz or 115 V 60 Hz 6 VA maximum
Fuse	0.1 A 250 V antisurge
Operating Temperature	0 to 50 C
Full Accuracy Temperature	25 plus or minus 10 C 75 percent RH max at 40 C
Storage Temperature	minus 40 to plus 70 C

ML2419A Specifications

PARAMETER	VALUE
Anritsu ML2419A Power Meter Range Calibrator	Overview
Applications	Annual verification of ML2400-series meter channels and approximate 50 MHz 0 dBm sensor checks.
Five overlapping voltage ranges	Chopped low-level ranges at 250 Hz
Technical Specifications	Range 1: plus 7 to minus 12 dB relative to 1.0 V

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 to plus 70 C
Operating temperature	0 to 50 C
Operating Temperature	0 to 50 C
Full Accuracy Temperature	25 plus or minus 10 C 75 percent RH max at 40 C

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
Range 1	plus 7 to minus 12 dB relative to 1.0 V
Range 2	minus 11 to minus 28 dB
Range 3	minus 25 to minus 44 dB
Range 4	minus 41 to minus 58 dB
Range 5	minus 56 to minus 70 dB
Range 1 Upper Level	plus 6.990 dB
Range 1 Lower Level	minus 11.834 dB
Range 5 Lower Level	minus 61.726 dB
Range 1 Upper Accuracy	plus or minus 0.002 dB
Other Levels Accuracy	plus or minus 0.003 dB worst case
Temperature Stability Range 1	plus or minus 10.612 ppm perCLong Term Drift Range 1: plus or minus 5.003 ppm per month
Chop Frequency	250 Hz ranges 3 4 5
External Gain Chopped	309.5 expected by meter
Reference Power	0 dBm / 1.000 mW
Reference Power Accuracy	plus or minus 1.2 percent per year
Reference Frequency	50 MHz nominal
Reference Frequency Accuracy	less than 1 percent
Rf Connector	50 ohm precisionNtype female
Dimensions	213 W x 88 H x 250 D mm
Mass	2.2 kg
Line Power	230 V 50 Hz or 115 V 60 Hz 6 VA maximum
Fuse	0.1 A 250 V antisurge
Operating Temperature	0 to 50 C
Full Accuracy Temperature	25 plus or minus 10 C 75 percent RH max at 40 C
Storage Temperature	minus 40 to plus 70 C

Notes

From Anritsu ML2419A operation manual Appendix A. For traceable sensor calibration use the 50 MHz source on the ML24xxx power meter rather than the calibrator RF output.

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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.