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Data Sheet

August 14, 2026

ANRITSU

Anritsu MA9711A Optical Power Sensor

The Anritsu MA9711A is a germanium optical power sensor for the ML9001A optical power meter. OEM ML9001A datasheet lists 0.75 to 1.8 μm Ge photodiode, continuous light minus 40 to plus 10 dBm at 1.3 μm , modulated light minus 60 to plus 7 dBm at 1.3 μm and 270 Hz, plus or minus 5 percent absolute accuracy over 0.95 to 1.5 μm , and plus or minus 0.15 dB linearity at 23 C. Long-wavelength optical power and fiber loss measurements on the ML9001A from 750 to 1800 nm. Direct photodiode input with 5 mm active area Host Modulation Frequencies: 12 including 270 Hz and 1 kHz Host Dimensions: 213 mmWx 88 mmHx 250 mmD Host Mass: 4 kg or less Host Line Power: 100/115/120/200/220 Vac plus 10 minus 15 percent or 240 Vac plus 4 minus 15 percent 50/60/400 Hz Optional Attenuator: MA9306A 10 dB for MA9711A



MODEL

Anritsu MA9711A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MA9711A

LISTING

<https://aumictechlabs.com/products/ma9711a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu MA9711A is an optical power sensor designed for integration with Anritsu optical power meters, specifically the ML9001A. It functions as a sensor to facilitate accurate measurements within optical communication systems. Technical Specifications * Wavelength Range: 750 nm to 1800 nm Measurement Level Range: * -100 dBm to +20 dBm (with suppressed internal reflection) * -100 dBm to +3 dBm in the 1.3 μm band (for modulated light measurement) Accuracy: * $\pm 5\%$ at -23 dBm (when calibrated by the ML9001A) * ± 0.15 dB linearity (referenced at

–23 dBm) Measurement Capabilities: Can sense continuous or modulated light. Suitable for measuring optical fiber loss, repeater outputs (near-end and far-end), and long-distance fiber losses. Modulation Frequencies: Supports 12 modulation frequencies, including 270 Hz, for modulated light measurements. Fiber Specifications: Performance is guaranteed for optical fibers with a core diameter up to 62.5 µm and a numerical aperture (NA) up to 0.29. Interfaces and Connectors * Optical Connector: The MA9711A/A1 typically uses an FC type optical connector as standard. Optional connector adapters are available, including FC, ST, DIN, SC, D4, RUNGE, Amphenol 906 type, DIAMOND (ø 3.5), HP-SMA, Amphenol 905 type, and TOCP172. Connection to Power Meter: Requires a sensor connecting cord (e.g., J0617B for MA97B) for connection to compatible Anritsu power meters. Physical Characteristics * Operating Temperature: 0°C to 50°C Compatibility * Primary Host Instrument: Anritsu ML9001A Optical Power Meter Optional Adapters: MA9001B Connector Adaptor (FC type for MA9411A/MA9711A) Accessories * Standard Accessories (when supplied with ML9001A): Sensor connecting cord B (for MA9711A/A1), power cord, fuses. Optional Accessories: * Optical Sensor Holder (for measuring free-space light) * Replaceable optical connectors (FC, ST, DIN, HMS-10/A, SC) * Connector Adaptors (e.g., MA9001B for FC type) Why Choose Aumictech for Anritsu MA9711A? At Aumictech, we specialize in supplying high-end optical test and measurement equipment. Whether you need precise optical power measurements, seamless integration with your Anritsu power meters, or reliable characterization of optical communication systems, our team ensures the Anritsu MA9711A delivers maximum performance for your application.

MA9711A Characteristics / Specifications

PARAMETER	VALUE
Wavelength Range	0.75 to 1.8 μm
Sensor Element	Ge photodiode
Active Area Diameter	5 mm
Input Type	direct to photodiode
Continuous Power Range At 1.3 μm	minus 40 to plus 10 dBm (0.1 μW to 10 mW)
Modulated Power Range At 1.3 μm 270 Hz	minus 60 to plus 7 dBm (1 nW to 5 mW)
Absolute Accuracy At Minus 23 dBm	plus or minus 5 percent 0.95 to 1.5 μm
Linearity Continuous At 23 C	plus or minus 0.15 dB
Linearity Low Level At 23 C	plus or minus 0.45 dB for minus 40 to minus 30 dBm
Sensor Dimensions	40 mmWx 32 mmHx 62/73 mmDSensor Mass: 400 g or less
Host Meter	ML9001A
Host Display Digits	4
Host Display Units	WWREL dBm dB REL
Host Wavelength Correction Step	1 nm
Host Data Memory Via Gpib	max 1000 points
Host Recorder Output	1 V full scale linear
Host Measurement Modes	continuous and modulated light
Host Modulation Frequencies	12 including 270 Hz and 1 kHz
Host Dimensions	213 mmWx 88 mmHx 250 mmDHost Mass: 4 kg or less
Host Line Power	100/115/120/200/220 Vac plus 10 minus 15 percent or 240 Vac plus 4 minus 15 percent 50/60/400 Hz
Host Power Consumption	40 VA or less
Operating Temperature	0 to 50 C
Sensor Cord	J0314 connecting cord B 2 m
Fiber Guarantee Core	up to 62.5 μm NA up to 0.29

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 50 C
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Sensor Cord	J0314 connecting cord B 2 m
Fiber Guarantee Core	up to 62.5 um NA up to 0.29 Notes From Anritsu ML9001A Optical Power Meter datasheet sensor column for MA9711A/A1. MA9711A1 is the lateral-input variant. Binding meter resolution and GPIB timing are those of the ML9001A mainframe.

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	
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Optional Attenuator: MA9306A 10 dB for MA9711A
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Notes

From Anritsu ML9001A Optical Power Meter datasheet sensor column for MA9711A/A1. MA9711A1 is the lateral-input variant. Binding meter resolution and GPIB timing are those of the ML9001A mainframe.

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.