

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

GENRAD

GenRad 1687B 1MHz LC Digibridge

The GenRad 1687 / 1687B is a 1 MHz microprocessor-based LC Digibridge digital impedance meter. Published Digibridge literature lists basic accuracy to 0.05% class with RLC and Q ranges at a 1 MHz test frequency of 0.01% accuracy class. 1 MHz component impedance measurement, production limit comparison, and automated Digibridge testing with optional IEEE interface. Microprocessor Digibridge measurement system Open/short semiautomatic fixture calibration



MODEL

GenRad 1687B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

1687B

LISTING

<https://aumictechlabs.com/products/1687b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The GenRad 1687B Megahertz LC Digibridge is an automatic tester designed for precise component and network analysis. It measures inductance, capacitance, and resistance at 1 MHz. This instrument is well-suited for quality control, design assessment, and incoming material inspection, offering reliable performance in various testing scenarios.

1687B Characteristics / Specifications

PARAMETER	VALUE
Resistance Range	0.01 ohm to 999.9 kohm
Inductance Range	0.001 uH to 99999 uH
Capacitance Range	0.001 pF to 99999 pF
Dissipation Factor Range	0.0001 to 9.999
Q Factor Range	0.01 to 999.9
Basic Accuracy	0.05%
Test Frequency	1 MHz
Test Frequency Accuracy	0.01%
Test Voltage Low Probe	0.1 Vrms maximum about 1.2 V
Test Voltage High Probe	1 Vrms maximum about 1.2 V
Display ResolutionLAndCClass	5 digits
Display ResolutionQDROrGClass	4 digits
Measurement Type	digital impedance meter Digibridge
External Bias Capability Class	up to 60 V with suitable source
External Bias Current Class	source must supply at least 15 mA dc
Architecture	microprocessor and LSI Digibridge
Calibration Method	open-circuit and short-circuit semiautomatic
Interface Option Class	IEEE 488 interface option available
Fixture Support	accessory test fixture with axial/radial adaptors
Intended Frequency	1 MHz component testing
Limit Comparator	Digibridge limit comparison capability
Probe Accessories Class	1687 9603 and 1687 9604 probes

1687B Specifications

PARAMETER	VALUE
GenRad 1687B Megahertz LC Digibridge	Overview
Applications	1 MHz component impedance measurement, production limit comparison, and automated Digibridge testing with optional IEEE interface.
Microprocessor Digibridge measurement system	1 MHz test frequency
Technical Specifications	Resistance Range: 0.01 ohm to 999.9 kohm

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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Notes	
Ranges and accuracy from GenRad 1687 Digibridge published specification summaries. Prefer the 1687-0120 manual tables for authoritative uncertainty matrices.	

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.