

GENRAD

GenRad 1608A Impedance Bridge

enRad 1608A Impedance Bridge Overview The General Radio Type 1608-A is a self-contained impedance bridge system measuring capacitance, conductance, resistance, and inductance with internal generators and detectors for DC and 1 kHz AC. OEM manual range tables list seven ranges for C and L with 0.1% class accuracy at 1 kHz on principal ranges. Applications Precision RLC component characterization at 1 kHz, DC resistance and conductance measurements, and laboratory bridge work needing D and Q readout with internal or external oscillators from 20 Hz to 20 kHz. Key Features Six bridges for C, G, R, and L in one instrument Internal 1 kHz oscillator module supplied Series or parallel equivalent circuit selection D and Q readout on appropriate bridges External oscillator capability 20 Hz to 20 kHz Technical Specifications Capacitance Range: 0.



MODEL GenRad 1608A	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU 1608A	LISTING https://aumictechlabs.com/products/1608a-2/

- NIST-traceable cal
- SAM registered
- 30-day returns
- NAICS 423690 · 811210 · 541380

This unit

The GenRad 1608A Standard Capacitor is a valuable tool for ensuring the accuracy and reliability of capacitance measurements. Its solid construction and stable design provide long-term performance, making it an ideal choice for demanding applications where precision is critical. This standard capacitor is widely used in industries such as electronics manufacturing, aerospace, and telecommunications.

1608A Characteristics / Specifications

PARAMETER	VALUE
Capacitance Range	0.05 pF to 1100 uF in seven ranges series or parallel
Inductance Range	0.05 uH to 1100 H in seven ranges series or parallel
Resistance Range Series	0.05 milliohm to 1.1 megohm AC or DC
Conductance Range Parallel	0.05 nanomho to 1.1 mho AC or DC Of Series Capacitance At 1 kHz: 0.0005 to 1
D Of Parallel Capacitance At 1 kHz	0.02 to 2
Q Of Series Inductance At 1 kHz	0.5 to 50
Q Of Parallel Inductance At 1 kHz	1 to 2000
Q Of Series Resistance At 1 kHz	0.0005 to 1.2 inductive Q Of Parallel Conductance At 1 kHz: 0.0005 to 1.2 capacitive
Internal Oscillator Frequency	1 kHz
External Oscillator Frequency	20 Hz to 20 kHz
Accuracy CGRL At 1 kHz Principal Ranges	plus or minus 0.1% plus or minus 0.005% of full scale
Accuracy Extreme RLLowest And CGH Highest Ranges	plus or minus 0.2% plus or minus 0.005% of full scale D Or Reciprocal Q Of C Or L At 1 kHz Or Lower: plus or minus 0.0005 plus or minus 5%
Residual Terminal Resistance Class	approximately 0.001 ohm
Residual Terminal Inductance Class	approximately 0.15 uH
Residual Terminal Capacitance Class	approximately 0.25 pF
DC Balance Sensitivity Class	balances to 0.1% possible from 1 ohm to 1 megohm with internal supply and detector
Bridge Functions	capacitance conductance resistance inductance
Measurement Modes	series or parallel equivalents
Internal Supplies	DC and 1 kHz AC generators and detectors included

1608A Specifications

PARAMETER	VALUE
GenRad 1608A Impedance Bridge	Overview
Six bridges for C G R and L in one instrument	Internal 1 kHz oscillator module supplied
D and Q readout on appropriate bridges	External oscillator capability 20 Hz to 20 kHz
Technical Specifications	Capacitance Range: 0.05 pF to 1100 uF in seven ranges series or parallel

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 General Radio Type 1608-A Impedance Bridge instruction manual specification tables (IET Labs archive). High-frequency and large phase-angle additional error terms are in the manual.	

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.