Applic.

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1692 Digibridge RLC Testers

Products

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Cost Effective, Accurate, Impedance

Introduction

The GenRad 1692 Digibridge is an RLC passive component tester that gives you the most cost-effective alternative to high-priced testers. It's designed for the demanding applications in production testing, incoming inspection, component design and evaluation. It provides superior testing performance and capability at the lowest cost.

USES:

- Meters used for impedance measurements (inductance, capacitance, and resistance) to characterize the performance of a variety of electrical components and materials.
- Test Resistors, Capacitors, Inductors or any type of passive component
- Testing Electronic Components

FEATURES:

GenRad

products

- Accuracy of 0.05% for RLC measurements
- Five Test Frequencies of 100Hz, 120Hz, IkHz, 10kHz and 100kHz
- Five Digit Resolution for RLC, Four Digit Resolution for D and Q
- Two AC Test Voltages 0.3V or 1Vrms
- 2, 4 or 8 Measurements per second
- IEEE-488 Bus and Component Handler Option

Description

The 1692 is a sophisticated, microprocessor-controlled tester that brings new levels of flexibility, simplicity and accuracy to RLC measurement. It's testing automation at its best with a range of programmable test frequencies and test voltages, as well as automatic limit comparison, automatic parameter selection, remote programmability, automatic binning and automatic zeroing.

The display facilitates visual acquisition of test data and eliminates costly guesswork and errors. The 1692 provides a powerful combination of features designed to maximize productivity in production testing applications.

- 0.05% Accuracy for RLC measurements; 0.0003 for D and Q measurements.
- Five selectable test frequencies: 100Hz, 120Hz, lkHz, 10kHz and 100kHz for greater versatility in component testing.• Choice of two commonly specified AC test voltages.

• Three keyboard-selectable test speeds; 2,4 or 8 measurements per second complements automatic handling equipment to maximize throughput.

• A choice of two measurement modes; Triggered and Continuous with averaging available in each ensures measurement flexibility.

• Wide choice of measurement parameters allow you to work with familiar units.

• A full, five-digit LED display for RLC measurements and a four-digit readout for D and Q testing, simultaneously display both test results for each measurement, automatically

• Guarded Kelvin measurement techniques protect measurement integrity.

ET LABS, INC. in the GenRad Tradition

534 Main Street, Westbury, NY 11590

• Automatic limit comparison and binning ensure fast, mistake-proof sorting of components.



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Digibridges

<u>1692 Digibridge RLC Features</u>							
Measurement Paramet	ters:	R/Q, L/Q, C/R, C/D (series or parallel)					
Test Frequencies:		100Hz, 120Hz, lkHz,10kHz a Accuracy ±0.01%.	and 100kHz.				
Applied Voltage:		0.3V to 1.0rmsV maximum					
Measurement Speed:		2, 4 or 8 measurements/second for Slow, Medium or Fast.					
Measurement Mode:		Continuous, Triggered (single, or 1 to 10 measurements averaged.					
Display Format:		Dual Display featuring 5 full digit LED for RLC and 4 full digit LED for DQR Bin Number, Delta RLC, Delta %,Value Automatically positioned decimal points and minus signs where appropriate. Individual LED indicators for parameters, units, and measurement conditions. GO/NO GO lights					
Bias:		Internal 2.0VDC	External up to 60V	DC			
Automatic Functions:		Auto ranging with manual hold Auto parameter (RLC) with manual selection					
Binning:		 Eight pass bins for RLC 	• Two fail bins, RL0	C and DQR			
Interfaces:		IEEE-488/Handler Interface	option				
Ranges:	Desconden	RI O		202			
	R/Q L/Q C/D C/R	0.00001Ω to 9999 0.00001mH to 9999 0.00001pF to 9999 0.00001pF to 9999	99MΩ 999H 99mF 99mF	0.0001 to 9999 0.0001 to 9999 0.0001 to 9999 0.0001 to 9999 0.0001Ω to 9999kΩ			
Accuracy:		Basic RLC ±0.05%. Basic DQ ±0.0003					
Zeroing:		Open and short circuit compensation.					
General Features:		 Charged Capacitor Protect Constant Voltage Mode. Keyboard Lock Store Test Conditions 	ion (1 Joule)				
Dimensions:		(w x h x d): 14.8 x 4.4 x 113.5in (375 x 112 x 343mm)					
Weight:		10 lbs. (4.5kg) net, 15.1.lbs. (6.83kg) shipping.					
Accessories Supplied	:	Power CableTest Fixture (Built-in)	 Axial Lead Adapte Instruction Manual 	ers al			
Enviromental:		Operating: 0°C to +50°C Storage: -40°C to +75°C Humidity: < 85%					
Power:		• 90-250V AC • 50 - 60 Hz • 60W max					

Ordering Information

1692-9700	1692 RLC Tester	1689-9602	BNC to BNC Extender Cable	
Includes: 4200-0300 1657-5995 1692-0120 No P/N	AC Power Cable Axial Lead Adapters Instruction Manual Calibration Certificate Traceable to NIST	1657-9600 1689-9604 7000-03 7000-05 1689-9600 1689-9605	Banana/Alligator Clip Extender Cable Calibration Kit Kelvin Clip Extender Cable Chip Component Tweezers Remote Test Fixture GO/NO GO Remote Test Fixture	
Optional Accessories:		1688-9600	874 Connector Extender Cable	
1658-9620 1689-9601	Calibration Data IEEE/Handler Interface BNC Adapter Box			