

Digibridge

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:

- Accuracy of 0.05% for RLC measurements
- Five Test Frequencies of 100Hz, 120Hz, 1kHz, 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



Series 1692 RLC Tester

Cost Effective, Accurate, Impedance Measurements

Introduction

The QuadTech 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.

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, 1kHz, 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.
- Automatic limit comparison and binning ensure fast, mistake-proof sorting of components.
- Optional IEEE-488 Bus and Handler Interface enable remote programming and allow the addition of a component handler to optimize throughput.



For more detailed specifications, visit
www.quadtech.com

For more information about special purchase, rent & lease options, call

1-800-253-1230
Fax 1-978-461-4295
Intl. 1-978-461-2100

1692 Digibridge RLC Features

Measurement Parameters:	R/Q, L/Q, C/R, C/D (series or parallel)		
Test Frequencies:	100Hz, 120Hz, 1kHz, 10kHz and 100kHz. Accuracy ±0.01%.		
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 60VDC	
Automatic Functions:	Auto ranging with manual hold Auto parameter (RLC) with manual selection		
Binning:	• Eight pass bins for RLC • Two fail bins, RLC and DQR		
Interfaces:	IEEE-488/Handler Interface option		
Ranges:	<u>Parameter</u>	<u>RLC</u>	<u>DQR</u>
	R/Q	0.00001Ω to 99999MΩ	0.0001 to 9999
	L/Q	0.00001mH to 99999H	0.0001 to 9999
	C/D	0.00001pF to 99999mF	0.0001 to 9999
	C/R	0.00001nF to 99999mF	0.0001Ω to 9999kΩ
Accuracy:	Basic RLC ±0.05%. Basic DQ ±0.0003		
Zeroing:	Open and short circuit compensation.		
General Features:	• Charged Capacitor Protection (1 Joule) • Constant Voltage Mode. • Keyboard Lock • Store Test Conditions		
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, 15.1lbs. (6.83kg) shipping.		
Accessories Supplied:	• Power Cable • Axial Lead Adapters • Test Fixture (Built-in) • Instruction Manual		
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:		1657-9600 Banana/Alligator Clip Extender Cable
4200-0300 AC Power Cable		1689-9604 Calibration Kit
1657-5995 Axial Lead Adapters		7000-03 Kelvin Clip Extender Cable
1692-0120 Instruction Manual		7000-05 Chip Component Tweezers
No P/N Calibration Certificate Traceable to NIST		1689-9600 Remote Test Fixture
Optional Accessories:		1689-9605 GO/NO GO Remote Test Fixture
	Calibration Data	1688-9600 874 Connector Extender Cable
1658-9620 IEEE/Handler Interface		
1689-9601 BNC Adapter Box		

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