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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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LCR-600

100 KHZ HIGH PRECISION LCR METER



Features

- Measures: Ls, Lp, Cs, Cp, Rs, Rp, D, Q, ESR, ER, Z, \emptyset , DCR
- Frequency range: 100 Hz to 100 kHz
- Auto Range
- Auto Detect
- Sorting Function
- Open circuit compensation
- Short circuit compensation
- Basic accuracy of 0.3%
- Two displays
- Display hold

Overview

The LCR-600 is a high precision test instrument used for measuring the inductance (L), capacitance (C), and resistance (R) of an electrical component.

Use the LCR-600 to:

- Check ESR values of capacitors and inductors
- Sort and/or select components
- Measures unmarked and unknown components
- Measure capacitance, inductance, or resistance of cables, switches, circuit board foils, etc.



**Model LCR-600
comes with:**

- LCR Meter
- BNC to Kelvin Clip Test Lead
- Power Cord
- User Manual

20171026

**Global[®]
Specialties**
A Cal Test Electronics Company

22820 Savi Ranch Parkway
Yorba Linda, CA 92887
800-572-1028
globalspecialties.com

LCR-600

SPECIFICATIONS

LCR-600	Specification
Input Power	115/230 V, 50/60 Hz, Fuse: 600/300 mA
Test Voltage	Constant 0.6 V rms
Operating Environment	Temp: 0 °C ~ 40 °C (32 °F ~ 104 °F) Humidity: 20% ~ 80%
Storage Environment	Temperature: -20 °C ~ 70 °C (-4 °F ~ 158 °F) Humidity: 0% ~ 90%

LCR-600 Dimensions

Product Only

L x W x H

12 x 10 x 4 in

Weight

5.10 lbs

Shipping

L x W x H

15 x 12 x 6 in

Weight

7 lbs

Impedance Accuracy (Ae)

Freq\Z	0.1-1Ω	1-10Ω	10-100kΩ	100kΩ-1MΩ	1MΩ-20MΩ	20MΩ - 200MΩ
DCR	1.0%+5d	0.5%+3d	0.3%+2d	0.5%+3d	1.0%+5d	2.0%+5d
100/120 Hz	1.0%+5d	0.5%+3d	0.3%+2d	0.5%+3d	1.0%+5d	2.0%+5d
1 kHz	1.0%+5d	0.5%+3d	0.3%+2d	0.5%+3d	1.0%+5d	2.0%+5d
10 kHz	1.0%+5d	0.5%+3d	0.3%+2d	0.5%+3d	2.0%+5d	-
100 kHz	2.0%+5d	1.0%+5d	0.5%+3d	1.0%+5d	2.0%+5d (1-2 MΩ)	
Note	Table for D < 0.1. If D > 0., the accuracy should be multiplied by $\sqrt{1+D^2}$					
	$Z_c = 1/2\pi fC$ if D << 0.1 in capacitance mode $Z_l = 2\pi fL$ if D << 0.1 in inductance mode					

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LCR-600

SPECIFICATIONS

D Value Accuracy

Freq \angle	0.1 - 1 Ω	1-10 Ω	10-100k Ω	100k - 1M Ω	1M - 20M Ω	20M - 200M Ω
100/120 Hz	± 0.010	± 0.005	± 0.003	± 0.005	± 0.010	± 0.020
1 kHz	± 0.010	± 0.005	± 0.003	± 0.005	± 0.010	± 0.050
10 kHz	± 0.010	± 0.005	± 0.003	± 0.005	± 0.002	-
100 kHz	± 0.020	± 0.010	± 0.005	± 0.010	± 0.020	

L_{DUT} Accuracy

Freq.	Accuracy (Q > 10 or D < 0.1)				
100 Hz	159 μ H~1.59mH	1.59mH~15.9mH	15.9mH~159H	159H~1.59kH	1.59kH~20kH
	1.0% +5d	0.5%+3d	0.3%+2d	0.5%+3d	1.0%+5d
120 Hz	133 μ H~1.33mH	1.33mH~13.3mH	13.3mH~133H	133H~1.33kH	1.33kH~20kH
	1.0% +5d	0.5%+3d	0.3%+2d	0.5%+3d	1.0%+5d
1 kHz	1.59 μ H~159 μ H	159 μ H~1.59mH	1.59mH~1.59H	1.59H~159H	159H~2.0kH
	1.0% +5d	0.5%+3d	0.3%+2d	0.5%+3d	1.0%+5d
10 kHz	1.59 μ H~15.9 μ H	15.9 μ H~159 μ H	159 μ H~1.59H	1.59H~15.9H	15.9H~20H
	1.0% +5d	0.5%+3d	0.3%+2d	0.5%+3d	2.0%+5d
100 kHz	0.159 μ H~1.59 μ H	1.59 μ H~15.9 μ H	15.9 μ H~159mH	159mH~200mH	-
	2.0%+5d	1.0%+5d	0.5%+3d	1.0%+5d	-

if D > 0.1, the accuracy should be multiplied by $\sqrt{(1+D^2)}$

LCR-600 Dimensions

Product Only

L x W x H

12 x 10 x 4 in

Weight

5.10 lbs

Shipping

L x W x H

15 x 12 x 6 in

Weight

7 lbs

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LCR-600

SPECIFICATIONS

C_{DUT} Accuracy

Freq.	Accuracy (Q > 10 or D < 0.1)					
100 Hz	1.59mF~15.9mF	159μF~1.59mF	15.9nF~159μF	1.59nF~15.9nF	79.6pF~1.59nF	7.96pF~79.6pF
	1.0% +5d	0.5%+3d	0.3%+2d	0.5%+3d	1.0%+5d	2.0%+5d
120 Hz	1.33mF~1.33mF	133μF~1.33mF	13.3nF~133μF	1.33nF~13.3nF	66.3pF~1.33nF	6.63pF~66.3pF
	1.0% +5d	0.5%+3d	0.3%+2d	0.5%+3d	1.0%+5d	2.0%+5d
1 kHz	159μF~1.59mF	1.59μF~159μF	1.59nF~15.9μF	159pF~1.59nF	7.96pF~159nF	0.79pF~7.96pF
	1.0% +5d	0.5%+3d	0.3%+2d	0.5%+3d	1.0%+5d	2.0%+5d
10 kHz	15.9μF~159μF	1.59μF~15.9μF	159pF~1.59μF	15.9pF~159pF	0.79pF~15.9pF	-
	1.0% +5d	0.5%+3d	0.3%+2d	0.5%+3d	1.0%+5d	-
100 kHz	1.59μF~15.9μF	159nF~15.9μF	15.9pF~159nF	1.59pF~15.9pF	0.79pF~15.9pF	
	2.0%+5d	1.0%+5d	0.5%+3d	1.0%+5d	2.0%+5d	
if D > 0.1, the accuracy should be multiplied by $\sqrt{(1+D^2)}$						

Note

All accuracy values are valid between:

- 18 - 28 °C or
- 64.4 - 82.4 °F

You must discharge capacitors before connecting them to the LCR-600

θ Value Accuracy

Freq \angle	0.1 - 1Ω	1-10Ω	10-100kΩ	100k - 1MΩ	1M - 20MΩ	20M - 200MΩ
100/120 Hz	±0.57°	±0.29°	±0.17°	±0.29°	±0.57°	±1.15°
1 kHz	±0.57°	±0.29°	±0.17°	±0.29°	±0.57°	±2.86°
10 kHz	±0.57°	±0.29°	±0.17°	±0.29°	±1.15°	-
100 kHz	±1.15°	±0.57°	±0.29°	±0.57°	±1.15°	