

Model LCR55

Handheld Component Tester



- The ultimate component checker measures inductance, capacitance, resistance, transistors, diodes and microwave diodes
- Plug-in test slots and test leads
- Oversized, read-at-a-glance display
- Data Hold and Max Hold
- Auto-off

LCR55 Specifications (at 23 °C ± 5 °C, < 75 % R.H. non-condensing)

Resistance	
Ranges	20 Ω, 200 Ω, 2 kΩ, 20 kΩ, 200 kΩ, 2 MΩ, 20 MΩ
Accuracy	20 Ω ± 1.2 % rdg (zero adjust) 200 Ω ± (0.5 % rdg + 3 dgts) 2 kΩ-2 MΩ ± (0.5 % rdg + 1 dgt) 20 MΩ ± (2.0 % rdg + 2 dgts)
Resolution	10 mΩ in 20 Ω range
Open Circuit Voltage	20 Ω range: 6.5 V DC 200 Ω range: 3.0 V DC All other ranges: 1.2 V DC
Continuity	
Audible Indication	2 kΩ range: Tone at R < 30 Ω
Response Time	800 ms approx.
Diode Test	
Test Current	1 mA (approx.)
Test Voltage	3.0 V DC
Accuracy	± (1.5 % rdg + 1 dgt)
Display	Forward junction voltage
Microwave Diode Test	
Test Current	0.6 mA approx.
Test Voltage	7.0 V DC typical
Accuracy	± (3.0 % rdg + 1 dgt)
Display	Forward junction voltage
Capacitance	
Ranges	200 pF, 2 nF, 20 nF, 200 nF, 2 μF, 20 μF, 200 μF, 2000 μF
Accuracy	200 pF to 200 nF: ± (1.0 % rdg + 1 dgt) 2 μF to 200 μF: ± (2.0 % rdg + 1 dgt) 2000 μF: < 1000 μF: ± (3.0 % rdg + 3 dgts) > 1000 μF: ± (5.0 % rdg + 5 dgts) <i>Note: In lower ranges, subtract 6 points residual offset reading from result</i>
Test Frequency	200 pF to 2 μF: 1000 Hz 20 μF to 200 μF: 100 Hz 2000 μF: 10 Hz
Temperature Coefficient	< 0.5 μF: 0.1 %/°C > 0.5 μF: 0.2 %/°C
Inductance	
Range	200 μH, 2 mH, 20 mH, 2 H, 20 H, 200 H
Accuracy	200 μH: ± (5.0 % rdg + 30 dgts)* 2-200 mH: ± (3.0 % rdg + 20 dgts)* 2-200 H: ± (5.0 % rdg + 20 dgts)*
Test Frequency	200 μH to 2 H ranges: 1000 Hz 20 H to 200 H ranges: 100 Hz
Temperature Coefficient	< 0.5 H: 0.2 %/°C > 0.5 H: 0.5 %/°C
Transistor Test	
hFE Range	0 to 1000
hFE Base Current	3 μA approx.
hFE Voltage C - E	3.0 V DC approx.
I _{ceo} Range, Leakage Current	10 nA to 20 μA
Overload Protection	
Resistance	350 V DC or AC rms
Capacitance	0.1 A/250 V fast acting fuse
Continuity	350 V DC or AC rms
Diode Test	350 V DC or AC rms
Micro Wave Diode Test	350 V DC or AC rms
Inductance	0.1 A/250 V fast blow fuse

*For values of Q ≤ 7

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General Specifications

Display: 3½ digit LCD, max reading of 1999; **Display Update Rate:** 2.5 /sec, nominal; **Power:** Standard 9 V transistor battery; **Battery Life:** Alkaline 200 hours; **Operating Temperature:** 0 °C to + 50 °C (32 °F to 122 °F), < 70 % R.H.; **Storage Temperature:** - 20 °C to + 60 °C (- 4 °F to 140 °F), < 80 % R.H. battery removed; **Dimensions (WxLxH):** 183 x 79 x 38 mm (7.2" x 3.1" x 1.5"); **Weight (incl. batteries):** 311 g (11 oz.); **Included Accessories:** Test leads, spare fuse, battery, (1) pair alligator clips, and operator's manual

Features

"Zero Adjust" Pot for Ohms; Low Battery Indication; Auto-Power Off: after 60 minutes after no function or range change; **Warranty:** One-year

Optional Accessories

H30Y Protective Holster; **VC221A** Vinyl Case; **DL243C** Basic Test Lead Kit; **DL248C** Deluxe Test Lead Kit; **TL245** Test Lead Set

For additional accessories, see the Accessories Compatibility Guide at www.metermantesttools.com



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