



## LCR55A Handheld Component Tester

- The ultimate component checker measures inductance, capacitance, resistance, transistors, diodes and microwave diodes
- Plug-in test slots and test leads with threaded alligator clips
- Oversized, digital display
- Data Hold and Max Hold
- "Zero Adjust" Pot for Ohms
- Low Battery Indication
- Auto-Power Off

### No hassle warranty

*No waiting.*

*No shipping charges.*



Our commitment to high-quality products and customer service is demonstrated by our industry exclusive "No Hassle" warranty. In the unlikely event that an Amprobe Test Tool requires warranty service, any of our local dealers are authorized to replace it, on the spot.

(note: \$500 MSLP limit)

### General Specifications

Display	3-1/2 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 in x 3.1 in x 1.5 in)
Weight (incl. batteries)	311 g (11 oz.)
Warranty	One year

### Included Accessories

TL36A Test Leads, spare fuse, battery, (1) pair alligator clips, and users manual.

### Optional Accessories

VC221B	Vinyl Case
DL243D	Basic Test Lead Kit
DL248D	Deluxe Test Lead Kit
TL245A	Test Lead Set

# LCR55A Handheld Component Tester

# Data Sheet

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

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

\*For values of Q ≤ 7

**Amprobe® Test Tools**  
 website: www.Amprobe.com  
 email: info@amprobe.com  
 Everett, WA 98203  
 Tel: 877-AMPROBE

**Amprobe® Test Tools Europe**  
 In den Engematten 14  
 79286 Glottertal, Germany  
 Tel.: +49 (0) 7684 8009 - 0

©2007 Amprobe Test Tools. All rights reserved.  
 7/2007 PN: 1646419 D-EN-N Rev C