

3½ Digits LCR Meter

Model: 24C

Features:

- EN61010-1 Approval
- Developed for Incoming Quality Control use
- Most rugged highly accurate L.C.R. meter
- Autoranging on frequency range up to 15MHz
- Provide MAX/DATA HOLD function
- Resistance measurement from 0.01Ω to 2000MΩ
- Capacitance measurement from 0.1pF to 20mF
- Inductance measurement from 0.1μH to 20H
- DCV, Diode, Continuity, Temperature and 2.5KHz signal output to test buzzer

Specifications:

DC Volts

Ranges: 20V
Accuracy: $\pm(2.0\%rdg + 1dgt)$
Input impedance: 1MΩ
Overload protection: 25VDC or AC rms

Temperature

Ranges: -20°C to 750°C
Resolution: 1°C
Accuracy: $\pm(2.0\%rdg + 3dpts)$ on -20°C to 500°C
 $\pm(3.0\%rdg + 2dpts)$ on 500°C to 750°C

Diode Test

Including: Diode, Continuity test
Test current: 1.0mA \pm 0.6mA
Open voltage: 3.0VDC typical
Accuracy: $\pm(3.0\%rdg + 1dgt)$
Continuity: <30dpts
Display: forward junction voltage
Overload protection: 25VDC or AC rms

Signal Output

Signal: +3V, -0.5V square wave, 50% duty
Frequency: 2.5KHz square wave
Output impedance: 3.5KΩ
Overload protection: 25VDC or AC rms

Frequency (Autoranging)

Ranges: 2KHz, 20KHz, 200KHz, 2000KHz, 15MHz
Accuracy: $\pm(0.1\%rdg + 1dgt)$
Sensitivity: 1.0Vrms min (TTL signal)
Overload protection: 25VDC or AC rms

Capacitance

Ranges: 200pF, 2nF, 20nF, 200nF, 2μF, 20μF, 200μF, 2000μF, 20mF
Accuracy: $\pm(2.0\%rdg + 30dpts)$ on 200pF range
 $\pm(2.0\%rdg + 10dpts)$ on 2nF to 20μF ranges
 $\pm(3.0\%rdg + 10dpts)$ on 200μF to 20mF ranges
Test frequency: 1000Hz on 200pF to 20nF range
80Hz on 200nF to 2μF range
26Hz on 20μF range
10.5Hz on 200μF to 20mF ranges
Overload protection: 0.1A/250V fast blow fuse



Inductance

Ranges: 200μH, 2mH, 20mH, 200mH, 2H, 20H
Accuracy: $\pm(5.0\%rdg + 3dpts)$
Test frequency: 1000Hz on 200μH to 20mH ranges,
80Hz on 200mH to 2H ranges,
26Hz on 20H range
Overload protection: 0.1A/250V fast blow fuse

Resistance

Ranges: 20Ω, 200Ω, 2KΩ, 20KΩ, 200KΩ, 2000KΩ, 20MΩ, 200MΩ, 2000MΩ
Resolution: 20Ω range 10mΩ
Accuracy:
 $\pm(0.3\%rdg + 50dpts)$ on 20Ω range
 $\pm(0.3\%rdg + 3dpts)$ on 200Ω range
 $\pm(0.3\%rdg + 1dgt)$ on 2KΩ to 2000KΩ ranges
 $\pm(2.0\%rdg + 2dpts)$ on 20MΩ range
 $\pm[(5.0\%rdg + 10dpts) + 10dpts]$ on 200MΩ to 2000MΩ ranges
Open circuit volts:
3.0VDC on 20Ω, 200Ω, 200MΩ, 2000MΩ ranges
0.3VDC on other range



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