

## LCR METER

## TECHNICAL DATA

### FEATURES

- Measure inductance/capacitance/resistance with secondary parameters including dissipation factor (D), quality factor (Q), phase angle ( $\phi$ ), equivalent series/parallel resistance (ESR or Rp)
- Autoranging operation for AC impedance and DE resistance measurement
- Auto LCR smart check and measurement
- Series/Parallel modes
- Ls/Lp/Cp with D/Q/ $\phi$ /ESR parameters
- Support DCR mode 200 to 200M $\Omega$
- High accuracy with 4 or 5 terminal Kelvin measurement
- Testing frequency is up to 10kHz and output frequency is up to 100kHz
- Dual display with backlight
- Data hold function
- Low battery indication with auto power off
- Dust and water proof to IP67
- Includes test leads and batteries

### SPECIFICATIONS

#### INDUCTANCE (F=1kHz)

Range: 2000.0 $\mu$ H/20.000/200.0/2000.0mH/20.000/  
200.00/2000.0H

Resolution: 0.1/1 $\mu$ H/0.01/0.1/1mH/0.01/1H

Accuracy:  $\pm(1.5\% +15 \text{ dgt.})$

#### CAPACITANCE (F=1kHz)

Range: 2000.0pF/20.000/200.00/2000.0nF/20.00/  
200.00/2000 $\mu$ F

Resolution: 0.01/0.1/1pF/0.01/0.1/1nF/0.1 $\mu$ F

Accuracy:  $\pm(1.0\% +10 \text{ dgt.})$



### SPECIFICATIONS

#### RESISTANCE (F=1kHz)

Range: 20.000/200.00 $\Omega$ /2.0000/20.000/200.00k $\Omega$ /  
2.0000/20.000/200.0M $\Omega$

Resolution: 0.01/0.1/1 $\Omega$ /0.01/0.1/1k $\Omega$ /0.1M $\Omega$

Accuracy:  $\pm(1.5\% +5 \text{ dgt.})$

Test Frequencies: 100/120/1k/10k/100k Hz

Test Signal Level: 0.5 VAC rms typical

Power Supply: 6 x 1.5V AA batteries

Dimensions: 220 x 96 x 60mm (8.6 x 3.7 x 2.4")

Weight: 360g (0.8 lb)

### ORDERING INFORMATION

R5001 ..... LCR Meter

R5001-NIST ..... LCR Meter & NIST