

LCR METER UNI-T UT612

The **UNI-T UT612** is a handheld LCR (Inductance, Capacitance, Resistance) meter designed for measuring the values of inductors, capacitors, and resistors. It is commonly used in electronics, electrical engineering, and repair work to test and verify the values of passive components.

Key Features of the UNI-T UT612:

1. Measurement Parameters:

- Inductance (L)
- Capacitance (C)
- Resistance (R)
- Impedance (Z)
- Quality Factor (Q)
- Dissipation Factor (D)

2. Measurement Ranges:

- Capacitance: 0.01 pF to 100 mF
- Inductance: 0.01 μ H to 100 H
- Resistance: 0.01 Ω to 10 M Ω

3. Test Frequencies:

- The UT612 offers multiple test frequencies (e.g., 100 Hz, 120 Hz, 1 kHz, 10 kHz) to suit different measurement requirements.

4. Accuracy:

- High accuracy for LCR measurements, typically around $\pm 0.3\%$ to $\pm 1\%$ depending on the range and frequency.

5. Display:

- Backlit LCD display for easy reading in low-light conditions.

6. Auto-Ranging:

- Automatically selects the appropriate measurement range for convenience.



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7. Equivalent Circuit Modes:

- Supports series and parallel equivalent circuit modes for more accurate measurements depending on the component type.

8. Bias Voltage:

- Some models may include a DC bias function for testing capacitors under voltage.

9. Portable and Handheld:

- Compact and lightweight design for easy portability.

10. Additional Features:

- Data hold function
- Relative measurement mode
- Low battery indication

Applications:

- Testing and troubleshooting electronic components.
- Quality control in manufacturing.
- Educational purposes in electronics labs.
- Repair and maintenance of electronic devices.

Accessories:

- Test leads
- Alligator clips
- Protective carrying case