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UNI-T®

UT622 LCR Meters



UT622 series handheld LCR meters feature powerful functions, high accuracy, fast speed, and long standby time. With a clear and intuitive 2.8-inch TFT LCD display, large-capacity rechargeable battery, and up to 100kHz test frequency, the meters can be used for longstanding accurate and convenient measurement in any occasion. They are suitable for the measurement and screening of inductance, capacitance, and resistance in laboratories, production lines, maintenance points, etc.

- Up to 0.1% measurement accuracy
- High-brightness white backlight
- Ultra-low power consumption and long battery life (8 hours)
- Maximum test speed: 20 times/s (UT622E)
- Constant 100Ω output impedance
- Data hold and recording mode
- Standard Mini-USB interface, SCPI command set

SPECIFICATION	UT622A	UT622C	UT622E
Certificates	CE, RoHS		
Test frequency	100Hz, 120Hz, 1kHz, 10kHz	100Hz, 120Hz, 1kHz, 10kHz, 100kHz	100Hz, 120Hz, 1kHz, 10kHz, 100kHz
Test level	0.1Vrms, 0.3Vrms, 1Vrms		
Output impedance	100Ω		
Measurement parameters	Primary: L/C/R/Z Secondary: D/Q/θ/ESR	Primary: L/C/R/Z Secondary: D/Q/θ/ESR	Primary: L/C/R/Z/DCR Secondary: D/Q/θ/ESR
Auto LCR	√	√	√
Test ports	Three-terminal test jacks, five-terminal test sockets		
Test speed	Fast (20 times/s), medium (5 times/s), or slow (2 times/s)	Fast (20 times/s), medium (5 times/s), or slow (2 times/s)	
DCR test speed			Fast (20 times/s),medium (5times/s), or slow (2 times/s)
Range	Auto/Hold		
Tolerance range	1%~20%		
Equivalent mode	Series/Parallel		
Clearing correction	Open/Short circuit		
Fuse of test ports	0.1A/250V		
Communication interface	Mini-USB		
LED alarm for tolerance	pass: green; fail: red	pass: green; fail: red	pass: green; fail: red
MAX reading of primary parameters	99999		
MIN resolution	0.0001		
Maximum accuracy	0.10%		
L	0.00μH~99.999H		
C	0.00pF~99.999mF		
Z/R	0.0000Ω~9.9999MΩ		
ESR	0.0000Ω~999.99Ω		
D	0.0000~9.9999		
Q	0.0000~99999		
θ	-179.9°~179.9°		
DCR			0.01mΩ--20.000MΩ
Temperature coefficient	0.1× (specified accuracy) /°C (0°C~18°C or 28°C~40°C)		
GENERAL CHARACTERISTICS			
Power	3.7V 1800mAh lithium polymer battery; Input: 220V (1±10%), 50Hz (1±5%); Mini-USB output: 5V, 1A		
Display	2.8'TFT LCD 320 x 240		
Product net weight	420g		
Product size	93mm×192mm×44mm		
Standard accessories	Short circuit board (UTR-001), USB cable, 5V 1A power adapter, Four-terminal Kelvin testleads (UTR-L100k-H) (UT622C/E), Alligator clip test leads with rubber plugs (UTR-002) (UT622A), English manual		
Standard individual packing	Gift box		
Standard quantity per carton	10pcs		
Standard carton measurement	370mm x 305mm x 475mm		
Standard carton gross weight	13.2kg		