AT3818 DIGITAL LCR METER

CHINESE/ENGLISH OPERATION
264 (W) * 107 (H) * 350 (D)
UNIT: mm
Weight: 4kg

High speed and precision

DCR Measurement

Continuous testing frequency

10Hz~300kHz

AT3818 is a precision LCR Meter, a micro desktop instrument controlled by a high-performance 32-bit ARM microprocessor for fully automatic real-time detection. The instrument can choose any testing frequency between **10Hz~300kHz**, and can choose a testing signal level between 0.01V and 2.00V in steps of 0.01V. It has built-in -2.5V~+2.5V programmable DC bias, automatic measurement of inductance L, capacitance C, resistance R, complex impedance Z, quality factor Q, loss angle tangent D, phase angle θ (degree), phase θ (radians) and DC resistance DCR.



Power Voltage: 90V-260VAC Frequency: 50Hz~60Hz
Max power: 30VA

MODEL	AT3818
Parameters	Cs-Rs,Cs-D,Cp-Rp,Cp-D,Lp-Rp,Lp-Q,Ls-Rs,Ls-Q,R-X,Z-θrad,Z-θdeg **DCR**
Monitor Parameters	Z, D, Q, θr, θd, R, X, G, B, Y, Vac, Iac, Δ, Δ%
Accuracy	Slow / medium speed: : 0.05%±5dgt ; Fast speed: 0.1%
Frequency	10Hz ~ 300kHz (continuous, resolution 0.001Hz)
Range	Auto、Manual & Nominal, 9 ranges
Display	L: 0.00001μH-9999.99H C: 0.00001pF – 9999.99mF R,X,Z: 0.00001Ω - 99.9999MΩ D, 0.00001 – 9.99999 Q: 0.00001 – 99999.9 Δ%: -999999% - 999999% θ(deg): -179.999° -179.999° θ(rad):-3.14159 – 3.14159 **DCR**: 0.00001Ω ~ 99.9999MΩ
Signal level	0.01V ~ 2.00V (10mV step) **ALC function**
Test speed	40t/s ,10t/s ,3t/s (with average function)
DC Bias	**-2.5V~+2.5V (0.5%+0.005V)**
Max display	Full 6-digit display for main parameter, secondary parameter, and monitor parameter: 999999
Source Resistance	30Ω, 50Ω & 100Ω
Comparator	14-bin sorting, 10 bin GD, 1 bin NG, 1 bin AUX, 2 bin main parameter NG ,Count function: Max 999999
List test	10 groups frequency and level scanning measurement
Calibration	Open & short circuit sweep frequency,correction,3 point frequency,correction and load calibration.
Interface	Handler and RS232
Other	Auto LCZ, keyboard lock, SCPI instruction set, store 999 LCD screens, trigger delay, built-in SCPI and Modbus protocols
Files	10 groups files to save user's setting,1 group to save system data real-time
Accessories	ATL501E Test cable ; ATL601 Test Fixture; ATL600 short-circuit; ATL108A communication cable ; ATL508A SMD patch Test Fixture;ATL103 USB cable
Optional Attachment	ATL608 SMD Chip mounting fixture; ATL508 SMD patch Test Fixture;