A110242: Battery ESR Test Kit

A110245: Ring Core Test Fixture

A165009: 4 BNC Test Cable with Probe

A133004 : SMD Test Box

A110244: High Capacitance Capacitor Test Fixture

and Systems



LCR Meter Model 11022 / 11025

KEY FEATURES

- Transformer test parameters (11025), Turns Ratio, DCR, Mutual Inductance
- 50Hz, 60Hz, 100Hz, 120Hz, 1kHz, 10kHz, 20kHz, 40kHz, 50kHz, 100kHz test frequencies
- 0.1% basic accuracy
- 21ms measurement time in all test frequency range (≥100Hz)
- Agilent 4263B LCR Meter compatible IEEE-488 commands
- 4 different output resistance modes selectable for non-linear inductor and capacitor measuring. Measured results are compatible with Chroma (Zentech) and other well-known LCR meters
- High resolution in low impedance(0.01mΩ) and high accuracy 0.3% till 100mΩ range are the right tool for low inductance, large capacitance, and low impedance component measuring
- Adjustable DC bias current up to 200mA (constant 25 Ω), are the right tool for inductance inspection of telecom transformers and small power chokes under DC bias current (11025)
- 1320 Bias Current Source directly control capability
- 240 x 64 dot matrix LCD display, easy operation
- \blacksquare 0.01m Ω \sim 99.99M Ω wide measurement range with 4 1/2 digits resolution
- Dual frequency function (option)
- BIAS comparator function
- Comparator function and 8/99 bin-sorting function
- Alarm for pass/fail judge result
- 50 internal instrument setups memory
- Handler interface trigger edge (rising/falling) programmable
- Test signal level monitor function
- Standard GPIB (IEEE-488) and handler interface
- Open/ short zeroing, load correction

The Chroma 11022 and 11025 LCR Meters are the measurement instruments for passive components. They are applicable to the automatic manufacturers for passive components in material inspection. With the features of 21ms high-speed measurement and 0.1% accuracy, 11022 LCR Meter fulfills the requirements for fast production. Its functions of 8-level counting, 8/99 Bin-sorting, pass/fail judgment, and 50 sets of internal save and recall settings totally meet the production line requirements for easy operation.

The four impedance output modes can measure the results with the LCR Meters of other brands to get a common measurement standard. Chroma 11025 LCR Meter is compatible with HP 4263B LCR Meter IEEE-488.2 control interface and has three impedance output modes for selection. The measurement results can also be compared with other brand of LCR Meters. Chroma11022/11025 is the ideal selection for passive components quality assurance and automatic production.

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ORDERING INFORMATION

11022: LCR Meter **11025**: LCR Meter

A110104: SMD Test Cable #17
A110211: Component Test Fixture
A110212: Component Remote Test Fixture
A110232: 4 BNC Test Cable with Clip#18

A110232 : 4 BNC lest Gable with Chip.
A110234 : High Frequency Test Cable
A110236 : Rack Mountain Kit

A110239: 4 Terminals SMD Electrical Capacitor Test Box (Patent)

SPECIFICATIONS		
Model	11022	11025
Test Parameter	L,C, R,IZI, Q, D, ESR, X, θ	L,C, R,IZI, Q, D, ESR, X, θ DCR4, M, Turns Ratio, L2, DCR2
Test Signals		
Level	10 mV~1V , step 10 mV; ± (10% + 3 mV)	
Frequency	50Hz, 60Hz, 100Hz, 120Hz, 1kHz, 10kHz, 20kHz, 40kHz, 50kHz, 100kHz ; ±0.01%	
Output Impedance (Nominal Value)	Constant OFF: Varies as range resistors	
DC Bias Current (Freq. ≥ 1kHz)		50mA max. for Constant 100 Ω 200mA max for Constant 25 Ω (AC level \leq 100mV)
Measurement Display Range		(ACTOVEL = TOUTTY)
C (Capacitance)	0.001pF ~ 1.9999F	
L, M, L2 (Inductance)	0.001 μ H ~ 99.99kH	
Z (Impedance), ESR	0.01mΩ ~99.99MΩ	
Q (Quality Factor)		
D (Distortion Factor)	0.0001 ~ 9999	
θ (Phase Angle)	-180.00° ~ +1	80.00°
Turns Ratio (Np:Ns)		0.9~999.99
DCR		0.01m Ω ~99.99M Ω
Basic Measurement Accuracy (Note1)		0
Measurement Time (Fast) (Note2)	21ms	
Interface & I/O		
Interface	handler (50pin) GPIB (IEEE-488.2)	
Output Signal	Bin-sorting & HI/GO/LOW judge	
Comparator	Upper/Lower limits in value	
Bin Sorting	8/99 bin limits in %, ABS	
Trigger Delay	0~9999ms	
Display	240 x 64 dot-matrix	LCD display
Function		
Correction	Open/ Short zeroing, load correction	
Averaging	1~256 programmable	
Cable Length	Om, 1m, 2m, 4m	
Test Sig. Level Monitor	Voltage, Current Series. Parallel	
Equivalent Circuit mode	22 22, 222	
Memory (Store/ Recall)	50 instrument setups Internal, Manual, External, Bus	
Trigger General	Internal, Manual, E	Xterrial, Bus
Operation Environment	Temperature : 10°C 40°C U	umidity: < 00 % R H
Power Consumption	Temperature : 10°C-40°C Humidity : < 90 % R.H. 65VA max	
Power Requirements	90~125Vac or 190~250Vac 48 Hz~62 Hz	
Weight	90~129Vac 01 190~250Vac 48 H2~62 H2 Approx. 5.4 kg	
Dimension (W x H x D)	320 x 115 x 350 mm	
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Note 1: 23 ± 5°C after OPEN and SHORT correction. Slow measurement speed. Refer to Operation Manual for detail measurement accuracy descriptions.

Note 2: Measurement time includes sampling, calculation and judge of primary and secondary test parameter measurement