



KEY FEATURES

- 0.1% basic accuracy
- Transformer test parameters (11025), Turns Ratio, DCR, Mutual Inductance
- 50Hz, 60Hz, 100Hz, 120Hz, 1kHz, 10kHz, 20kHz, 40kHz, 50kHz, 100kHz test frequencies
- 21ms measurement time (≥ 100Hz)
- Agilent 4263B LCR Meter commands compatible
- 4 different output resistance modes selectable for non-linear inductor and capacitor measuring
- High resolution in low impedance $(0.01 \text{ m}\,\Omega)$ and high accuracy 0.3% till $100 \text{m} \Omega$ range
- Adjustable DC bias current up to 200mA (constant 25 Ω) (11025)
- 1320 Bias Current Source directly control capability
- \blacksquare 0.01m $\Omega \sim$ 99.99M Ω wide measurement range (4 1/2 digits)
- Dual frequency function (11022 option) for automatic production
- BIAS comparator function
- Comparator function and 8/99 bin-sorting function
- Pass/fail judge result for automatic production
- Handler interface trigger edge (rising/falling) programmable
- Test signal level monitor function
- Standard GPIB, RS-232, and handler interface
- Open/short zeroing, load correction
- LabView® Driver

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.









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

A110234: High Frequency Test Cable

A110236: 19" Rack Mounting Kit A110239: 4 Terminals SMD Electrical Capacitor

Test Box (Patent)

A110242: Battery ESR Test Kit

A110244: High Capacitance Capacitor Test Fixture

A110245: Ring Core Test Fixture

A113012: Vacuum Generator for A132574 A113014: Vacuum Pump for A132574 A132574: Test Fixture for SMD power choke

A133004: SMD Test Box

A133019: BNC Test Lead, 2M (single side open)

A165009: 4 BNC Test Cable with Probe

SPECIFICATIONS		
Model	11022	11025
Test Parameter	L,C, R, Z , Q, D, ESR, X, θ	L,C, R, Z , Q, D, ESR, X, θ
		DCR4, M, Turns Ratio, L2, DCR2
Test Signals		
Level	10 mV~1V , step 10 mV; \pm (10% + 3 mV)	
Frequency	50Hz, 60Hz, 100Hz, 120Hz, 1kHz, 10kHz, 20kHz, 40kHz, 50kHz,	
.,,	100kHz; ±0.01%	
	Constant $107 \times : 25 \Omega$; Constant $320 \times : 100 \Omega$	
Output Impedance	Constant 106x: 2Ω , for $Z \ge 10\Omega$,	
(Nominal Value)	100mA (1V setting) for reactive load $\leq 10 \Omega$ Constant 102x: 25Ω , for $Z < 1 \Omega$, 100Ω for else	
DC Bias Current		200mA max. for Constant 100Ω
(Freq. ≧ 1kHz)		(AC level $\leq 100 \text{mV}$)
Measurement Display Range		(ACTEVEL = 100111V)
C (Capacitance)	0.001pF ~ 1.9999F	
L, M, L2 (Inductance)	0.001μH ~ 99.99k	
Z (Impedance), ESR	0.001μ11-99.99Κ	
Q (Quality Factor)		
D (Distortion Factor)	0.0001 ~ 9999	
θ (Phase Angle)	-180.00° ~ +180.00°	
Turns Ratio (Np:Ns)		0.9~999.99
DCR		0.01m ○ ~99.99M ○
Basic Measurement Accuracy *1	± 0.1%	
Measurement Time (Fast) *2	21ms	
Interface & I/O		
Interface	handler (50pin), GPIB, RS-232	
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	0m, 1m, 2m, 4m	
Test Sig. Level Monitor	Voltage, Current	
Equivalent Circuit mode	Series, Parallel	
Memory (Store/ Recall)	50 instrument setups	
Trigger	Internal, Manual, External, BUS	
General		
Operation Environment	Temperature: 10°C~40°C Humidity: < 90 % R.H.	
Power Consumption	65VA max	
Power Requirements	90 ~ 132Vac or 180 ~ 264Vac, 47 ~ 63Hz	
Dimension (H x W x D)	100 x 320 x 347.25 mm / 3.94 x 12.6 x 13.67 inch	
Weight	5.5 kg / 12.11 lbs	

Note*1: 23 \pm 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.