LCR-7000 Specifications

The specifications apply when the LCR-7000 is powered on for at least 30 minutes under +18 °C to +28 °C.





TEST FREQUENCY	
	LCR-7300: 10 Hz to 300 kHz (± 0.01 %) (4 digits resolution) LCR-7200: 10 Hz to 200 kHz (± 0.01 %) (4 digits resolution) LCR-7100: 10 Hz to 100 kHz (± 0.01 %) (4 digits resolution) LCR-7020: 10 Hz to 20 kHz (± 0.01 %) (4 digits resolution) LCR-7002: 10 Hz to 2 kHz (± 0.01 %) (4 digits resolution)
OUTPUT IMPEDANCE	
	30 Ω / 50 Ω / 100 Ω selectable
BASIC ACCURACY	
Slow / Med	0.05 %
Fast	0.1 %
TEST SPEED	
	FAST:25 ms / MED:100 ms / SLOW:333 ms
TEST SIGNAL LEVELS	
AC Voltage	10.00 mV to 2.00 V (± 10 %) CV :10.00 mV to 2.00 V(± 6 %)
Current	100.0 µA to 20.00 mA (± 10 %) CC :100.0 µA to 20.00 mA (± 6 %) (@2 V max.)
DCR	+2 V, 0.066 A(Max.), Output impedance fixed 30 Ω
DC BIAS	
Internal	± 5 V (0.5 % + 0.005 V)
DISPLAY RANGE	
R, X, |Z| G, B, |Y| L C D Q θd θr DCR Δ%	0.00001 Ω to 99.9999 MΩ 0.01 nS to 999.999 S 0.00001 µH to 9999.99 H 0.00001 pF to 9999.99 mF 0.00001 to 9.99999 0.00001 to 99999.9 -179.999° to 179.999° -3.14159 to 3.14159 0.0000 1Ω to 99.9999 MΩ -99999 % to 99999 %
TEST MODE	
16 Combinations	Cs-Rs, Cs-D, Cp-Rp, Cp-D, Lp-Rp, Lp-Q, Ls-Rs, Ls-Q, Rs-Q, Rp-Q, R-X, Z-θr, Z-θd, Z-D, Z-Q, DCR
Monitor parameter (2 selectable)	Z, D, Q, Vac, Iac, Δ, Δ%, θr, θd, R, X, G, B, Y
LISTED MODE	
Steps	10 steps
Parameters	Freq./Volt./Curr.
BIN FUNCTION	
Numbers	10 (BIN: 1 to 9 , AUX:1 BIN)
Comparators	ABS/PER/SEQ
SWEEP	

Swept graphical	Two of measurement parameters
Swept parameter	Frequency
X-AXIS/Y-AXIS	LINEAR/LOG
Value point	more than 250 points
Measure function	MAX/MIN Frequency point and value
SCALE	TRACE A/B, AUTO SCALE
Cursor function	Available
Storage function	Data (.csv) & Screen capture (bmp file)
MEMORY	
INT – panel setting	10 file name
INT – measured data	10000 Data(.csv)
USB storage	10 file name for setting, 9999 file name for data, 999 Log file for LCD screen
OTHER FUNCTION	
Auto Level Control (ALC)	ON/OFF
GO/NoGO	Available
Average	1 to 256 times
Trigger	INT / MAN / EXT / BUS
Delay	0 ms to 60 s
Judgment	PASS / FAIL
Auto LCZ	ON / OFF
Screen Capture	Saving in to USB (Bmp file)
DISPLAY	
	5' Touch LCD
INTERFACE	
SCPI	RS-232, Device(Type C), LAN
Others	Handler, USB Host
POWER SOURCE	
	AC 100 V to 240 V, 50 Hz to 60 Hz, Max. 15 W
DIMENSIONS & WEIGHT	
	256(W) mm x 101(H) mm x 315(D) mm, Approx. 3 kg