

LCR-8000G Specifications

The specifications apply when the LCR-8000G is powered on for at least 60 minutes under +18°C~+28°C



TEST FREQUENCY	
20Hz ~ 10 / 5 / 1 MHz, 5 Digits, $\pm 0.005\%$	
INPUT IMPEDANCE	
100 Ω	
BASIC ACCURACY (*)	
$\pm 0.1\%$ (R, Z, X, G, Y, B, L, C)	
TEST SPEED	
AC (> 2kHz)	DC
MAX: 75mS	MAX: 30mS
FAST: 150mS	FAST: 60mS
MEDIUM: 450mS	MEDIUM: 120mS
SLOW: 600mS	SLOW: 900mS
TEST SIGNAL LEVELS	
$\leq 3\text{MHz}$: 10mV~2Vrms, 1mV/Step or 10mV/Step, 2% $\pm 5\text{mV}$	
$> 3\text{MHz}$: 10mV~1Vrms, 1mV/Step or 10mV/Step, 2% $\pm 5\text{mV}$	
SHORT CIRCUIT CURRENT	
Max. 20mA	
DISPLAY RANGES	
R, Z, X	0.1m Ω ~ 100M Ω
G, Y, B	10nS ~ 1000S
L	0.1nH ~ 100kH
C	0.01pF ~ 1F
D	0.00001 ~ 9.9999
Q	0.1 ~ 9999.9
θ	-180° ~ +180°
Rdc	0.1m Ω ~ 100M Ω
MEASUREMENT PARAMETERS	
Impedance (Z), Phase Angle (θ), Inductance (L), Capacitance (C), AC Resistance (Rac), Quality Factor (Q), Dissipation Factor (D), Admittance (Y), Conductance (G), Reactance (X), Susceptance (B), DC Resistance (Rdc)	
SERIES OR PARALLEL EQUIVALENT CIRCUIT	
C + R, C + D, C + Q, L + R, L + Q, L + D	

SERIES EQUIVALENT CIRCUIT ONLY
X + R, X + D, X + Q
PARALLEL EQUIVALENT CIRCUIT ONLY
C + G, B + G, B + D, B + Q, B + R, L + G
POLAR FORM
Z + Phase Angle, Y + Phase Angle
AVERAGE
1 ~ 256 TIMES
LCD DISPLAY
320 x 240 DOT-MATRIX
INTERFACE
RS-232, GPIB
POWER SOURCE
AC 115V(+10% / -25%), 230V(+15% / -14%) (Selectable), 50/60Hz; Consumption: 12W (max.)
DIMENSIONS & WEIGHT
330(W) x 170(H) x 340(D)mm, Approx. 5kg

(*) : Basic accuracy varies with the speed, frequency, AC signal level and impedance of the device under test.