

Component Parameter Test Instruments

Precision LCR Meter SM6036



Advance Features

- High precision using automatic balancing bridge technology, four-terminal pair test configuration
- High speed: The fastest test speed is 5.6ms
- 10-point multi-parameter list sweep function
- Mathematical operation function
- Automatic polarity function of varactor diode
- One-key screen shot function
- One key recording function
- 10-level sorting function, sound and light alarm for sorting results
- Large storage space
- Built-in: 40 sets of setting files
- Expansion: 500 sets of setting files, image files, and data recording files can be stored through USB memory
- High compatibility: support SCPI commands, compatible with KEYSIGHT E4980A, E4980AL, HP4284A

Model		SM6036
AC Parameters		Cp/Cs, Lp/Ls, Rp/Rs, (Z), (Y), R, X, G, B, Ø, D, Q, Vac, Iac
DC Parameters		Rdc, Vdc, Idc
Test Frequency	Range	4Hz ~ 8.5MHz
	Resolution	1MHz
Test Electric Level	AC Voltage	4Hz ~ 1MHz : 5mV ~ 2Vrms
		1MHz ~ 8.5MHz : 5mV ~ 1Vrms
	Resolution	100µV
	AC Current	4Hz ~ 2MHz : 50µA ~ 20mArms
		2MHz ~ 8.5MHz : 50µA ~ 10mArms
	Resolution	1µA
DC Bias	DC Voltage	100mV ~ 2V
	Resolution	100µV
	Voltage	0V ~ ± 0V
	Current	0mA ~ ±100mA
	Resolution	1µA

Model	SM6036
Test Terminal Configuration	Four terminal pair
Cable Length	0, 1
Output Impedance	100Ω
Typical Measurement Time (Speed)	Fast : 5.6ms, Medium, 120ms, Slow, 230ms
Highest Accuracy	1 kHz : 0.05% 1MHz : 0.05% 2MHz : 0.1% 5MHz : 0.5% 8.5MHz : 1.0%
Display Range	a : 1×10^{-18} ; E : 1×10^{18}
Cs, Cp	± 1.00000aF ~ 999.999EF
Ls, Lp	± 1.000000aH ~ 999.999EH
D	± 0.00001 ~ 9.99999
Q	± 0.01 ~ 99999.9
R, Rs, Rp, X, Z, Rdc	± 1.00000aΩ ~ 999.999EΩ
G, B, Y	± 1.00000aS ~ 99.9999ES
Vdc	± 1.000000aV ~ 999.999EV
Idc	± 1.00000aA ~ 999.999EA
θr	± 1.00000rad ~ 3.14159rad
θd	± 0.0001deg ~ 180.000deg
Δ%	± 0.0001% ~ 999.999%
Multifunction List Scan	10 dots Parameter : Measurement Parameter, Test Frequency, AC Voltage, AC Current, DC Bias, Voltage and DC Bias current .
Graph Sweep	Optional
Interface	USB Host, USB Device, Handler, RS232C Optional : GPIB
Warm up time	60minutes
General Specifications	
Display	7" TFT LCD display, 800 x RGB X 480
Input Voltage	100 ~ 120 VAC / 198 ~ 242VAC, 47~63Hz
Power Consumption	80VA
Dimension (W X H X D)	400 x 132 x 425mm
Weight	15kg

Subject to change

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