

# Handheld LCR Meter SM6015/SM6016



- Measurement accuracy 0.1%
- Maximum test signal frequency : 100 kHz
- Selectable test signal level
- With DCR function
- 40000 counts for primary parameter, D/Q resolution 0.0001
- Typical ultra-low consumption : 25 mA
- Intelligent Auto LCR function
- Constant output impedance: 100 Ohm
- Percentage display & 4-tolerance comparator: 1%, 5%, 10%, 20%
- Data Hold, Max/Min/ Average recording
- Real-time function configuration selection & working condition hold capacity
- Battery charge in startup & shutdown
- Test terminal protection function
- Standard Mini-USB interface, SCPI compatible

Technical Specifications	SM6016	SM6016A	SM6015	SM6015A	SM6015B
<b>Function</b>					
Test Parameters					
Primary parameters	L / C / R / Z / DCR		L / C / R / Z		
Secondary parameters	D / Q / R / $\theta$ / ESR		D / Q / R / $\theta$ / ESR		
Measuring Range					
L	0.000 $\mu$ H – 1000.0 H				
C	0.000 pF – 20.000 mF				
Z/R	0.0000 $\Omega$ – 10.000 M $\Omega$				
DCR	0.0000 $\Omega$ – 20.000 M $\Omega$		-		
ESR	0.0000 $\Omega$ – 999.9 $\Omega$				
D	0.0000 – 9.999				
Q	0.0000 – 9999				
$\theta$	0.00° – $\pm$ 180.0°				
Basic Accuracy	0.1%		0.25 %		
Equivalent Circuit	Series and Parallel				
Parameter & Equivalent Mode	Hold, Auto				
Ranging Mode	Auto				
Measurement Terminals	3-terminal, 5-terminal				
Measuring Speed	4 meas/sec, 1.5 meas/sec				
DCR Measuring Speed	3 meas/sec		-		
Calibration Function	Open, short				
Comparator Function	1%, 5%, 10%, 20%				1%, 5%, 10%

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<b>Test Signal</b>					
Test Frequencies	100Hz 120Hz 1kHz 10kHz 100kHz	100Hz 120Hz 1kHz 10kHz	100Hz 120Hz 1kHz 10kHz 100kHz	100Hz 120Hz 1kHz 10kHz	100Hz 120Hz 1kHz
Test Signal Level	0.3Vrms, 0.6Vrms, 1Vrms		0.6Vrms		
Output Resistance	100Ω				
PC Interface	Mini-USB (virtual serial port)				
<b>General Information</b>					
Display	LCD Primary-Secondary dual display, with backlight				-
Display Reading	Max. Primary parameters: 40000 digits Secondary parameters D/Q Minimum resolution: 0.0001				
Operating Conditions	0 - 40°C, RH 90 %				
Supply	Battery: 8.4V Ni-MH 200mAH rechargeable battery AC Adapter: Input: 220V ±10%, 50Hz± 5% Output: 12V – 15V DC				
Input fuse	0.1A / 250V				
Standby Current	11μA	18μA			Max.2μA
Battery Life	16 hours ( Typical) based on new battery & backlight off fully charged Ni-MH battery				
Auto Power off	5min, 15min, 30min, 60min, OFF available; factory default :5min				
Low Voltage indicator	When battery voltage drops below 6.8 V, Low Voltage Indicator turns on				
Dimensions	W: 90, H: 190, D: 41 mm				
Weight	350 g (approx.)				
<b>Accessories</b>					
Standard	AC Power Adapter, shorting plate, Banana plugs- crocodile clips test leads, 4 terminal Kelvin clip test leads, SMD 4-terminal Kelvin test tweezers, Mini USB Cable				
Optional	SMD 4-terminal Kelvin test tweezers				

Subject to change



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