

Handheld LCR Meter SM6015A/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	SM6015A	SM6016
Function		
Test Parameters		
Primary parameters	L / C / R / Z	L / C / R / Z/ DCR
Secondary parameters	D / Q / R / θ / ESR	D / Q / R / θ / ESR
Measuring Range		
L	0.000 μ H – 1000.0 H	
C	0.000 pF – 20.000 mF	
Z/R	0.0000 Ω – 10.000 M Ω	
DCR	-	0.0000 Ω – 20.000 M Ω
ESR	0.0000 Ω – 999.9 Ω	
D	0.0000 – 9.999	
Q	0.0000 – 9999	
θ	0.00° – \pm 180.0°	
Basic Accuracy	0.25 %	0.1%
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%	

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Technical Specifications		SM6015A	SM6016
Test Signal			
Test Frequencies		100 Hz	100 Hz
		120 Hz	120 Hz
		1 kHz	1 kHz
		10 kHz	10 kHz
		-	100 kHz
Test Signal Level		0.6 Vrms	0.3 Vrms, 0.6 Vrms, 1 Vrms
Output Resistance		100 Ω	
PC Interface		Mini-USB (virtual serial port)	
General Information			
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	9 V battery	8.4 V Ni-MH 200mAH rechargeable battery
	AC Adapter	Input: 220 V ± 10%, 50 Hz ± 5%, Output: 12 V – 15 V DC	
Input fuse		0.1 A / 250 V	
Standby Current		18 µA	11 µA
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.)	
Accessories			
Standard		AC Power Adapter (SMA26028), shorting plate (SMA26010B), Banana plugs- crocodile clips test leads (SMA26004F), 4 terminal Kelvin clip test leads (SMA26027AS), SMD 4-terminal Kelvin test tweezers with plastic body (SMA26029C, with SM6016 only), Mini USB Cable	
Optional		SMD 4-terminal Kelvin test tweezers with metallic body (SMA26009C)	

Subject to change



SMA26028



SMA26010B



SMA26004F



SMA26027AS



SMA26029C



SMA26009C



Mini
USB Cable

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