

# Precision LCR Meters SM6025, SM6026



## Advance Features

- Basic accuracy: 0.05%
- Maximum test frequency of 1MHz
- Resolution of 10mHz
- Balance test function
- Transformer parameter test function
- Maximum test speed: 13 ms/time
- Automatic level control (ALC) function for V and I
- Test signal level monitor function for V and I
- Built in DC bias source
- External DC bias source of large current
- 201 points list sweep function
- Selectable internal resistance of 30Ω, 50Ω & 100Ω
- Maximum measurement speed up to 30 meas/sec
- 22 parameter combinations
- Internal file storage and external USB disk file storage
- Test data can be saved to USB disk directly
- RS232C, USB, LAN, HANDLER, GPIB, DCI interface
- 4.3" TFT LCD display

Technical Specifications	SM6025	SM6026
Test Frequency	20Hz to 300kHz	20Hz to 1MHz
Measurement Parameters	L, C, R, IZI, IYI, X, B, G, D, Q, θ, DCR, Vdc-Idc	
Display Range:	L : 0.00001μH – 99.9999kH C : 0.00001pF – 9.99999F IZI, R, X, DCR : 0.00001Ω – 99.9999MΩ IYI, B, G : 0.00001μS – 99.9999S D : 0.00001 – 9.99999 Q : 0.00001 – 99999.9 θ (Deg) : -179.999° – 179.999° θ (Rad) : -3.14159 – 3.14159 Δ% : -999.999% – 999.999%	
Transformer Test Parameters	DCR1 (primary, 2 terminal), DCR2 (secondary, 2 terminal), M (mutual inductance), N, 1/N, Phase, Lk (Leakage inductance), C (primary, secondary capacitance), balance test	
Basic Accuracy	LCR Parameters: 0.05%, Transformer Parameters: 0.1%	
Frequency Resolution & Accuracy	10mHz (4 digit), 0.01%	
Equivalent Circuit	Serial, Parallel	
Ranging Mode	Auto, Hold	
Trigger Mode	Internal, Manual, External, BUS	
Average Times	1–255	
Calibration Function	Open / Short calibration with full frequency or dot frequency, Load	

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Technical Specifications	SM6025	SM6026
<b>AC Test level</b>		
Voltage range of test signal	10mV – 2Vrms	
Min voltage resolution	100µV (3 digit)	
Voltage Accuracy	ALC ON: 10% x set voltage + 2mV, ALC OFF: 6% x set voltage + 2mV	
Current range of test signal	100µA — 20mA	
Min current resolution	1µA (3 digit)	
Current Accuracy	ALC ON: 10% x set current + 20µA, ALC OFF: 6% x set current + 20µA	
<b>DC Bias Voltage Source</b>		
Voltage & Current range	0V – ± 5V / 0 mA – ± 50mA	
Resolution	0.5mV / 5µA	
Voltage accuracy	1% x set voltage + 5mV	
ISO ON	For the bias test of inductance & transformer	
Source Impedance (AC)	ISO ON: 100Ω, ISO OFF: 30Ω, 50Ω & 100Ω selectable	
Source Impedance (DCR)	30Ω, 50Ω & 100Ω selectable	
Measuring time (≥ 10kHz)	Fast : 13ms/time, Med : 67ms/time, Slow : 187ms/time Plus the refresh time of display character	
Delay Time Setup	0 – 999, minimum resolution: 100µs	
Comparator Function	10 bin sorting, BIN1– BIN9, NG, AUX Bin counter PASS/FAIL on front panel, LED indication	
Parameters Displayed	Value, ΔABS, Δ%	
Parameter display of test page	One set main/ sub parameter, 10 point list seep	
List Sweep Function	10 points list sweep Frequency, AC voltage/current, internal/external bias voltage/ current can be swept. Each sweep point can be sorted separately	
Internal Non-volatile Memory	100 sets of LCRZ setting files, 201 times test results	
External USB memory	GIF files LCRZ setting files Test data can be stored via USB memory directly.	
Interface	USB, HANDLER, RS232C, LAN, USB Host, GPIB (optional), DCI (optional)	
<b>Calibration</b>		
Warm Up Time	≥30 mins.	
Ambient Temperature	23 ± 5°C	
Test Signal Voltage	0.3Vrms – 1Vrms	
Zeroing	After Open or Short	
<b>General Information</b>		
Display	4.3" TFT LCD display	
Operating conditions	0°C - 50°C, ≤ 90% RH	
Supply	230V ± 10%, 50Hz AC	
Power Consumption	Max. 80VA	
Dimensions (WxHxD)	280 x 88 x 370mm (with no sheath), 369 x 108 x 408mm (with sheath)	
Weight	Approx. 5kg	
Standard Accessories	4 terminal Kelvin test clip leads (SMA26011AS), 4 terminal transformer test clip (SMA26038), 4 terminal component test fixture (SMA26048), shorting plate (SMA26010)	
Optional Accessories	SMD Kelvin test tweezers Metallic body (SMA26009B), SMD Kelvin test tweezers Plastic body (SMA26029B), Core inductor test fixture (SMA26007A), SMD component test fixture (SMA26008A)	

(Subject to change)



SMA26011AS



SMA26038



SMA26048



SMA26010



SMA26009B



SMA26029B



SMA26007A



SMA26008A

## scientific

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