

Precision LCR Meters

SM6025, SM6025A, SM6026



Advance Features

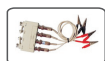
- Basic accuracy: 0.05%
- Maximum test frequency of 1 MHz
- Resolution of 10 mHz
- Balance test function
- Transformer parameter test function
- Maximum test speed: 13 ms/time
- Automatic level control (ALC) function for V and I
- Test signal level monitor function for V and I
- Built in DC bias source
- External DC bias source of large current
- 10 points list sweep function
- Selectable internal resistance of 30 Ω , 50 Ω & 100 Ω
- 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	SM6025A	SM6026
Test Frequency:	20 Hz to 300 kHz	20 Hz to 500 kHz	20 Hz to 1 MHz
Measurement Parameters:	L, C, R, IZI, IYI, X, B, G, D, Q, q, DCR, Vdc-I _{dc}		
LCR Test Parameter:	L	0.00001 μ H – 99.9999 kH	
	C	0.00001 pF – 9.99999 F	
	IZI, R, X, DCR	0.00001 W – 99.9999 M Ω	
	IYI, B, G	0.00001 μ S – 99.9999 S	
	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%		
Resolution:	10 mHz		
Equivalent Circuit:	Serial, Parallel		
Ranging Mode:	Auto, Hold		
Trigger Mode:	Internal, Manual, External, BUS		
AC level			
Voltage range of test signal:	10 mV – 2 V _{rms}		

Precision LCR Meters SM6025, SM6025A, SM6026

Technical Specifications	SM6025	SM6025A	SM6026
Min voltage resolution :	100 μ V, 3 digit input		
Voltage Accuracy:	ALC ON: 10% x set voltage + 2mV, ALC OFF: 6% x set voltage + 2mV		
Current range of test signal:	100 μ A — 20 mA		
Min current resolution:	1 μ A, 3 digit input		
Current Accuracy:	ALC ON: 10% x set current + 20 μ A, ALC OFF: 6% x set voltage + 20 μ A		
DC Bias Voltage Source			
V / I range:	0 V – \pm 5V / 0 mA – \pm 50 mA		
Resolution :	0.5 mV / 5 μ A		
Voltage accuracy:	1% x set voltage + 5 mV		
ISO ON:	For the bias test of inductance & transformer		
Source Impedance (AC):	ISO ON: 100 Ω , ISO OFF: 30 Ω , 50 Ω & 100 Ω selectable		
Source Impedance (DCR):	30 Ω , 50 Ω & 100 Ω selectable		
Measuring time (\geq 10 kHz)	Fast : 13 ms/time, Med : 67 ms/time, Slow : 187 ms/time Plus the refresh time of display character		
Average Times:	1 – 255		
Delay Time:	0 –999, minimum resolution: 100 μ s		
Calibration Function:	Open / Short calibration with full frequency or dot frequency, Load		
Parameters Displayed:	Value, Δ ABS, 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		
Comparator Function:	10 bin sorting, BIN1– BIN9, NG, AUX		
	Bin counter		
	PASS/FAIL on front panel, LED indication		
Calibration			
Warm Up Time:	\geq 30 mins.		
Ambient Temperature:	23 \pm 5° C		
Test Signal Voltage:	0.3 Vrms – 1 Vrms		
Zeroing:	After Open or Short		
General Information			
Display:	4.3" TFT LCD display		
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)		
Operating conditions:	0 °C - 40 °C, \leq 90% RH		
Supply:	230 V \pm 10 % , 50 Hz AC		
Power Consumption:	Max. 80 VA		
Dimensions (WxHxD):	280 x 88 x 370 mm (with no sheath) , 369 x 108 x 408 mm (with sheath)		
Weight:	Approx. 5 kg		
Accessory :			
Standard	4 terminal Pair Kelvin test clip leads, 4 terminal kelvin test clip, 4 terminal test fixture, Gilded shorting plate		
Optional	SMD Kelvin test tweezers, SMD component test fixture, Core inductor test tweezers, SMD component test fixture		

(Subject to change)



scientific

Scientific Mes-Technik Pvt. Ltd.

B-14, Pologround, Industrial Estate, Indore 452 015, India

☎ 0731-2422330 /31 /32 /33 📠 0731-2422334, 2561641 ✉ info@scientificindia.com 🏠 www.scientificindia.com



Bengaluru 080-23452635

✉ bangalore@scientificindia.com

Kolkata 033-22282223-6

✉ kolkata@scientificindia.com

Chennai 044-42054180

✉ chennai@scientificindia.com

Mumbai +919820307693

✉ mumbai@scientificindia.com

Hyderabad 040-27534995, 27534996

✉ hyderabad@scientificindia.com

New Delhi +919977994909

✉ ndelhi@scientificindia.com

Kerala +919497721864

✉ kerala@scientificindia.com

Pune 020-25282882

✉ pune@scientificindia.com