

Information

NEW

HIOKI

# LCR METER IM3536

Component measuring instruments



4Hz to 8MHz  
Measurement frequency

## The new standard

Introducing a new LCR meter that delivers both advanced specifications and exceptional cost performance, making it ideal for use in applications ranging from production lines to research and development.

High precision:  $\pm 0.05\%$  rdg.

High speed: 1 ms (fastest speed)

High reliability: Built-in contact check function

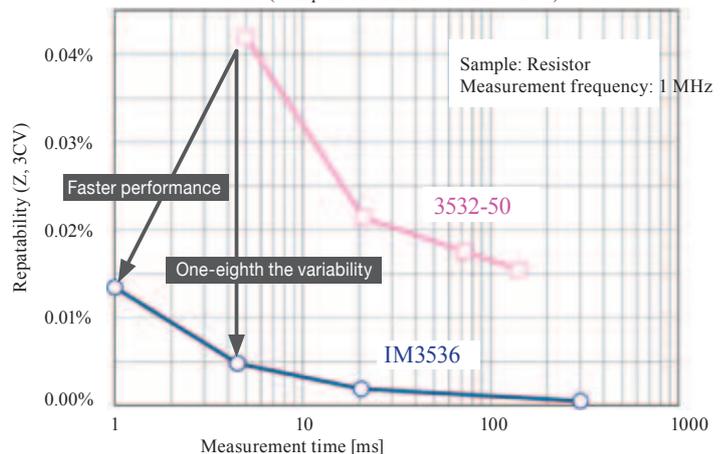
Test fixtures and probes sold separately. Photograph depicts IM3536 used in combination with the SMD Test Fixture 9677.



One-eighth the precision variability and five times the measurement speed of legacy models means dramatically improved productivity.

# High speed Stability

Repeatability and measurement time  
(Comparison of IM3536 and 3532-50)



## Boost productivity by performing two jobs with one instrument: Continuous measurement function

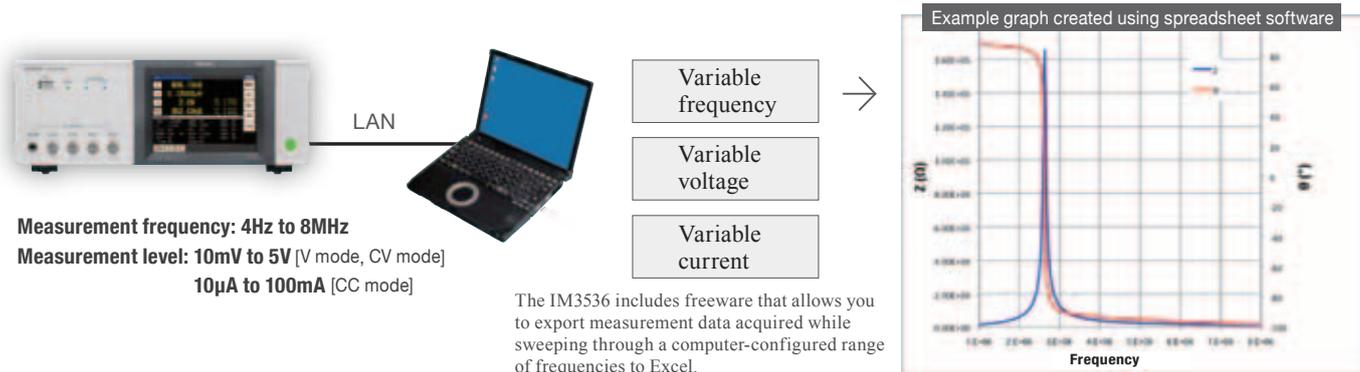
Example: You wish to perform L-Q measurement of a power supply's impedance at 1 kHz as well as DC resistance (DCR) measurement. The IM3536 lets you perform high-speed, continuous measurement using different conditions with a single LCR meter.



In the past, the application required two instruments. Now it can be accomplished with a single instrument.

## The IM3536 is ideal for R&D using a broad range of measurement conditions or for evaluations under conditions of actual use.

Example: You wish to analyze the resonance point of a coil while varying the frequency or you wish to perform measurements while varying the measurement signal in order to evaluate a sample that exhibits signal dependence.



### IM3536 specifications overview

Measurement frequency	Frequency range: 4 Hz to 8 MHz Measurement resolution:	Basic accuracy	[Representative value] Z: ±0.05%rdg. θ: ±0.03°, DCR: ±0.1% rdg.
	4.00 Hz to 999.99 Hz ..... 10 mHz steps 1.0000 kHz to 9.9999 kHz ..... 100 mHz steps 10.000 kHz to 99.999 kHz ..... 1 Hz steps 100.00 kHz to 999.99 kHz ..... 10 Hz steps 1.0000 MHz to 8.0000 MHz ..... 100 Hz steps		DC bias measurement
Measurement level [V mode, CV mode]	Normal mode: 4 Hz to 1.0000 MHz: 10 mV to 5 Vrms (Max. 50 mA) 1.0001 MHz to 8 MHz: 10 mV to 1 Vrms (Max. 10 mA)	Residual charge protection function	Max. 0.5J when not exceeding 1000 V DC (protection against discharge voltage)
	Low impedance high accuracy mode: 10 mV to 1 V (Max. 100 mA)	Contact check functionality	For-terminal measurement contact check Hi-Z reject function
Measurement level [CC mode]	Normal mode: 4 Hz to 1.0000 MHz: 10 µA to 50 mA (Max. 5 V) 1.0001 MHz to 8 MHz: 10 µA to 10 mA (Max. 1 V)	Compensation	Open and short compensation, load compensation, correlation compensation, cable length compensation (0m, 1m, 2m, 4m)
	Low impedance high accuracy mode: 10 µA to 100 mA (Max. 1 V)	Continuous measurement mode	Measures under saved conditions continuously (maximum of 60 sets)
Measurement time	Approx. 1 ms (1 MHz, FAST, display OFF, representative value)	Functions	Comparator, BIN measurement, Zoom display function, Key lock function, Panel loading/saving (measurement conditions, compensation values) Memory function, Selection of number of display digits, BCD output
Guaranteed accuracy range	1 mΩ to 200 MΩ (Depends on measurement configuration settings)	Interfaces	Handler, USB, USB flash drive, LAN, GP-IB, RS-232C
Measurement parameter	Z, Y, θ, Rs, Rp, X, G, B, Cs, Cp, Ls, Lp, D, Q, Rdc, σ, ε	Dimensions and mass	Approx. 330 W × 119 H × 230 D mm (12.99 W × 4.69 H × 9.06 D in), approx. 4.2 kg (148.1 oz)
		Accessories	POWER CORD × 1, INSTRUCTION MANUAL × 1, COMMUNICATIONS USER MANUAL (CD-R) × 1

### Options

Test fixtures or probes are not included with the instrument. The LCR Meter IM3536 requires a dedicated test fixture and probe. For more information, please contact your Hioki distributor.

TEST FIXTURE 9262	4-TERMINAL PROBE L2000	DC BIAS VOLTAGE UNIT 9268-10
TEST FIXTURE 9263	4-TERMINAL PROBE 9140-10	DC BIAS CURRENT UNIT 9269-10
SMD TEST FIXTURE 9677	4-TERMINAL PROBE 9500-10	RS-232C CABLE 9637
SMD TEST FIXTURE 9699	PINCHER PROBE L2001	GP-IB CONNECTOR CABLE (2m) 9151-02
SMD TEST FIXTURE IM9100	TEST FIXTURE 9261-10	

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