

Information

NEW

HIOKI

LCR METER IM3523/IM3533/IM3533-01

Component measuring instruments



From Production Lines to Research and Development

New Series of LCR METERS to Meet Your Applications

New LCR METER Models IM3523, IM3533, and IM3533-01 are extremely cost-effective testers that provide higher performance and better functionality than previous HIOKI models, such as a wide measurement frequency range from 1 mHz (40 Hz for the IM3523) to 200 kHz, high-speed measurement of up to 2 ms, and highly reliable measurement using the contact-check function. Select the best model according to your application - from production lines to research and development.

Reduce Inspection and Management Costs on Production Lines



LCR METER IM3523

- A single device can perform measurements at high speed under multiple conditions.
(C-D + ESR measurement and L + DCR measurement)
- Optimal measurement conditions can be set automatically according to the test sample so switching between setups is a snap.

Comprehensive Transformer and Coil Measurements



LCR METER IM3533

All the features of the IM3523 plus:

- DCR temperature compensation (DCR temperature compensation function).
- All the measurements necessary to evaluate transformers (such as turn ratio and mutual inductance) in a single device.
- Compact size with a depth of approximately 168 mm (6.61 in) leaves ample room for other equipment.

High Accuracy and Easy Operation Ideal for Research and Development in Electrochemistry and Other Fields



LCR METER IM3533-01

All the features of the IM3523 and IM3533 plus:

- Reliable and highly accurate measurements (basic accuracy $\pm 0.05\%$ of reading).
- Frequency sweep function



ISO 9001
JMI-0216



ISO 14001
JQA-E-90091



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Basic Specifications (Model Comparison)

Auto Measurement Condition Setting Function

Set the optimal range for individual test samples and the measurement conditions linked to a change in the range to reduce the overall setup time.

Transformer/Coil Measurement Screen

(only available for the IM3533 and IM3533-01)

The IM3533 and IM3533-01 provide a transformer/coil measurement screen that enables efficient measurement of the winding of transformers and coils.

Use		LCR component production	Transformer and coil production	Research and development	(Previous model)
Model		IM3523	IM3533	IM3533-01	3522-50
Measurement parameters	Z,Y, θ ,Rs,Rp,X,G,B, Ls,Lp,Cs,Cp,Q,D	○	○		○
	DCR	○	○ (With temperature compensation function)		○
	Transformer measurement	–	N,M, Δ L		–
	Temperature T	–	○		–
Basic accuracy		$\pm 0.08\%$ rdg.	$\pm 0.08\%$ rdg.	$\pm 0.05\%$ rdg.	$\pm 0.08\%$ rdg.
Measurement frequency		40Hz to 200kHz	1mHz to 200kHz		1mHz to 100kHz
Measurement signal level (V/CV)		5mV to 5V	5mV to 5V/2.5V		10mV to 5V
Measurement time		2ms	2ms		5ms
Comparator		Two items: HI/IN/LO, ABS/%/ Δ %	Two items: HI/IN/LO, ABS/%/ Δ %		Two items: HI/IN/LO, ABS/%/ Δ %
BIN measurement		Main item: 10 categories Sub-item: 1 category	10 categories each for two items		–
Cable length		0m/1m	0m/1m	0m/1m/2m/4m	0m/1m
Contact check		4-terminal contact check (threshold change) / HI-Z reject	4-terminal contact check (threshold change) / HI-Z reject		–
DC bias measurement		–	–5V to 5V		–
Sweep measurement		–	–	Frequency: 2 to 801 points	–
Display		Monochrome LCD	Color TFT 5.7-inch LCD, touch panel		Monochrome LCD
Interfaces	EXT I/O (handler)	○	○		○
	USB	○	○		–
	USB flash drive	–	○		–
	RS-232C	Option	Option		Option
	GP-IB	Option	Option		Option
	LAN	Option	Option		–

Product Configurations and Options

LCR METER IM3523

LCR METER IM3533

LCR METER IM3533-01

Test fixtures are not supplied with the unit.
Select an optional test fixture or probe when ordering.

Optional accessories

FOUR-TERMINAL PROBE L2000 (1 m / 3.28 ft)
TEST FIXTURE 9262 (direct connection type)
SMD TEST FIXTURE 9263 (direct connection type)
SMD TEST FIXTURE 9677 (direct connection type)

SMD TEST FIXTURE 9699 (direct connection type,
For measuring SMDs with electrodes on the bottom)
GP-IB INTERFACE Z3000
RS-232C INTERFACE Z3001
LAN INTERFACE Z3002
SHEATH TYPE TEMPERATURE CABLE 9478 (1 m / 3.28 ft)
GP-IB CONNECTION CABLE 9151-02 (2 m / 6.56 ft)

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