HIOKI

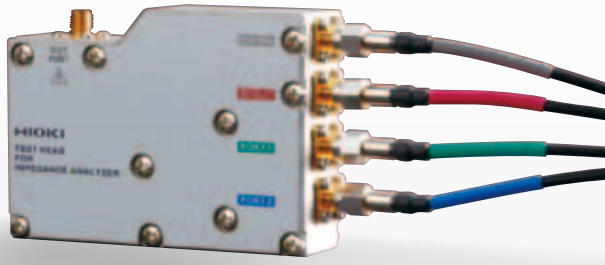
New

IMPEDANCE ANALYZER IM7583, IM7585

Component Measuring Instruments

IM7583 Measurement frequency 1 MHz to 600 MHz

IM7585 Measurement frequency 1 MHz to 1.3 GHz



Super Fast

Maximum speed : **0.5ms**

(Analog measurement time)

Super Stable

Measured value variability : **0.07%**

(When measuring at 1GHz with the IM7585)

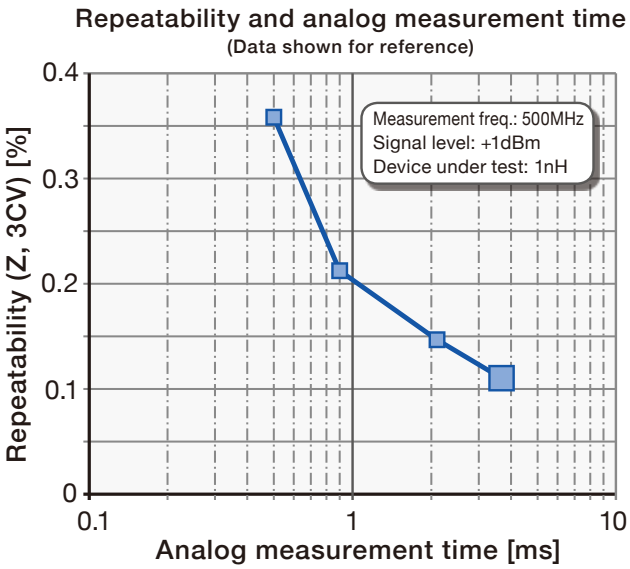
CE

High-speed, highly stable measurement to boost your production volume

Ideal for common mode filter and chip inductor production lines

IMPEDANCE ANALYZER IM7583

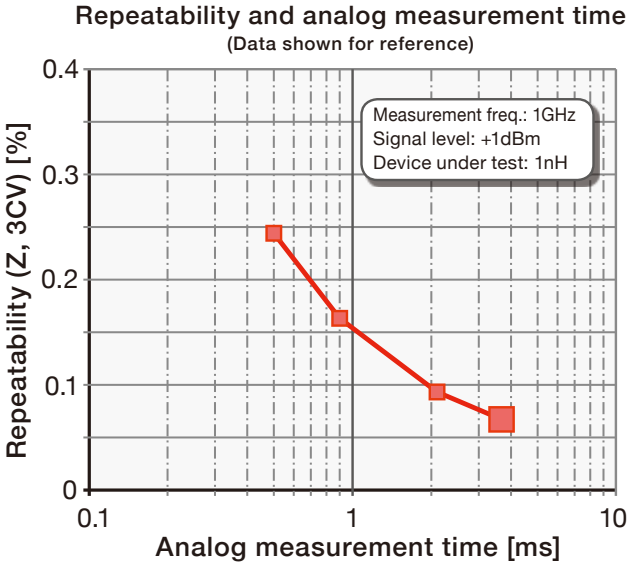
Measurement frequency
1MHz to 600MHz



Perfect for R&D and production of ferrite chip beads and chip inductors

IMPEDANCE ANALYZER IM7585

Measurement frequency
1MHz to 1.3GHz



Measurement capabilities suited to a variety of production lines

For single-frequency pass/fail judgments:
[LCR mode]

For multiple-frequency pass/fail judgments:
[Analyzer mode : Spot judgment]

For pass/fail judgments based on frequency characteristics:
[Analyzer mode : Peak judgment]

For combined LCR + analyzer testing:
[Continuous measurement mode]

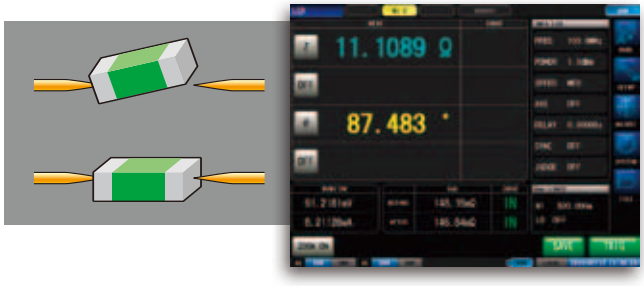
Functions, Features and Small Form Factor to Enable Efficient and Intelligent Measurement and Analysis

R&D applications

- Measure frequency characteristics and level characteristics
- Five-model equivalent circuit analysis
- Measured value search function

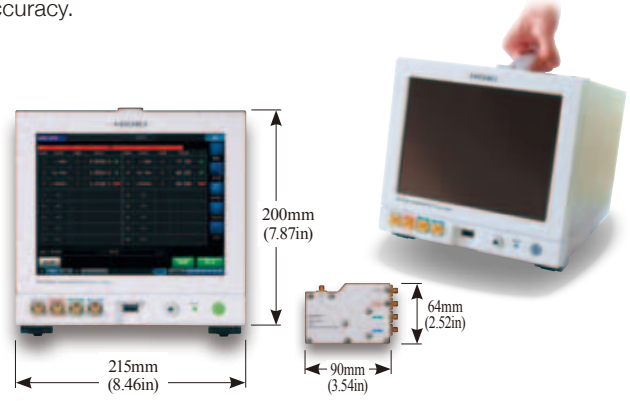
Contact check function (DCR measurement, Hi-Z reject)

Perform contact checks using DCR measurement on components such as inductors, ferrite cores, and common mode filters. The IM7585 can also perform contact checks using Hi-Z reject functionality for components such as capacitors.
Both of these capabilities can be combined with a chatter detection check to deliver highly reliable measurements.



Half-rack dimensions and intuitive operability enhances productivity

The compact design lets you stack two units side-by-side to mount into a full-rack space so that you can use two Impedance Analyzers simultaneously to further streamline testing and increase production yield. Customize the brightness, color and viewing size of the large color display in order to accommodate the needs of your workspace, and use the convenient touch screen to achieve maximum work efficiency.
The bundled test head is also compact and unobtrusive, letting you set it as close to the device under test as possible in order to minimize noise and other adverse effects that can impact accuracy.



Basic Specifications

(Accuracy guaranteed for: 1 year. Post-adjustment accuracy guaranteed for: 1 year.)

Measurement frequency	Frequency range : IM7583 1 MHz to 600 MHz IM7585 1 MHz to 1.3 GHz Measurement resolution : 100 kHz
Measurement parameters	Z, Y, θ, Rs, Rp, X, G, B, Cs, Cp, Ls, Lp, D, Q
Measurement level	-40.0 dBm to +1.0 dBm (4 mV to 502 mVrms)
Measurement time	As fast as 0.5 ms (Analog measurement time)
Measurement range	100 mΩ to 5 kΩ
Basic accuracy	Z : ±0.65% rdg. θ : ±0.38°
Power supply and maximum rated power	AC 100 V to 240 V (50 Hz / 60 Hz), 70VA
Dimensions and mass	Approx. 215W×200H×348D mm (8.46W×7.87H×13.7D in), Approx. 8.0 kg (282.3 oz)
Accessories	Power cord ×1, Instruction manual ×1, Impedance analyzer application disc ×1

Measurement mode	LCR mode: Measurement using a single set of conditions Analyzer mode: Sweep measurement and equivalent circuit analysis Continuous measurement mode: Continuous measurement using previously saved conditions
LCR mode	Bin measurement: 10 categories for 4 measurement parameters Comparater measurement: Hi, IN and Lo judgments for 4 parameters
Analyzer mode	Frequency/level sweep measuremen (801 points) Time interval measurement
Continuous measurement mode	LCR mode: 30 conditions, Analyzer mode: 16 conditions
Contact check	DCR measurement, HI-Z reject, Waveform judgment (chatter detection)
Interfaces	USB, LAN, GP-IB (optional), RS-232C (optional) *These interfaces support programming commands used with the HIOKI Model 3535 LCR HiTester. Handler, USB memory

Instrument

- IMPEDANCE ANALYZER IM7583-01 **(Order code: IM7583-01)**
  Composition: Main unit, Test Head, Connection cable (1m)
- IMPEDANCE ANALYZER IM7583-02 **(Order code: IM7583-02)**
  Composition: Main unit, Test Head, Connection cable (2m)
- IMPEDANCE ANALYZER IM7585-01 **(Order code: IM7585-01)**
  Composition: Main unit, Test Head, Connection cable (1m)
- IMPEDANCE ANALYZER IM7585-02 **(Order code: IM7585-02)**
  Composition: Main unit, Test Head, Connection cable (2m)

Test fixtures or probes are not included with the main unit.
A dedicated test fixture is required. For more information, please contact your HIOKI distributor.

Options

Interfaces

*Any interlink-compatible cross-cable can be used as the RS-232C CABLE.

GP-IB INTERFACE Z3000

GP-IB CONNECTION CABLE 9151-02
Cable length: 2 m (6.56 ft)

RS-232C INTERFACE Z3001

RS-232C CABLE 9637
Cable length: 1.8 m (5.91ft)

Test fixtures and associated options: Available soon

- TEST FIXTURE STAND IM9200
- ADAPTER IM9906 (3.5 mm to 7 mm)
- SMD TEST FIXTURE IM9201

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All information correct as of Sept. 7, 2015. All specifications are subject to change without notice.

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