

Product Datasheet - Technical Specifications



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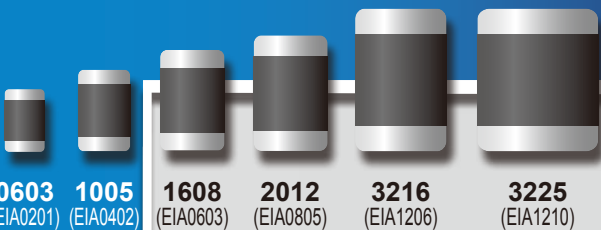
Click here for a list of related products



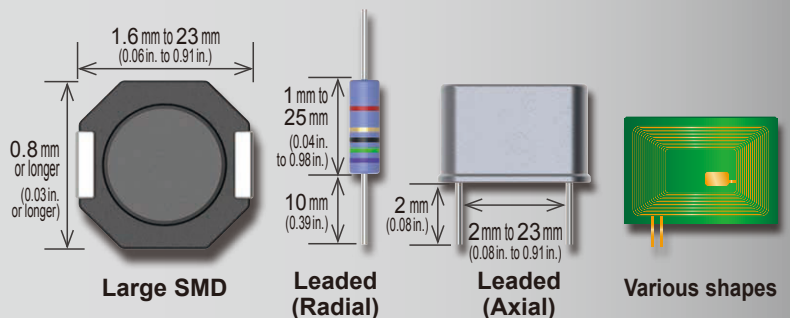
Measure What You Want to Measure by our Test Fixtures



IM9201 DC to 3 GHz

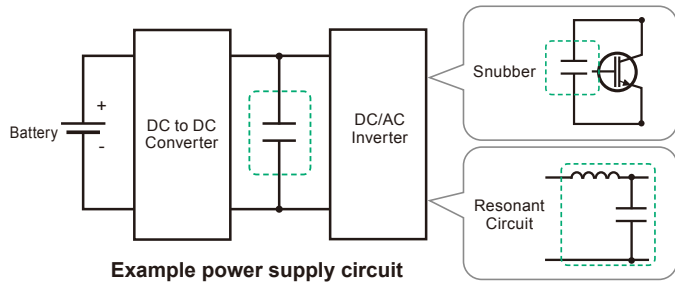


IM9202 DC to 600 MHz



Applications

Test fixtures make measuring electronic components with the Impedance Analyzer IM7580 series easier than ever.



Example power supply circuit

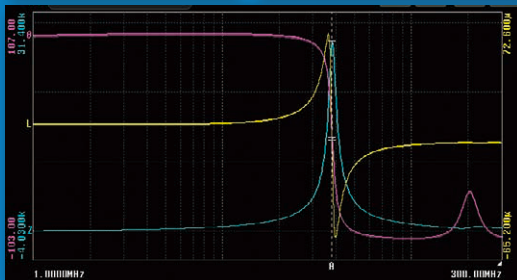
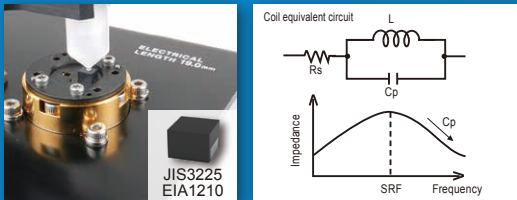
Example: Measuring the high-frequency characteristics of an electronic component

Today's power supply circuits, which run at increasing high operating frequencies, incorporate numerous electronic components. Pair a test fixture with the IM7580 Impedance Analyzer to measure the high-frequency characteristics of electronic components.

IM9201 Examples of measurements

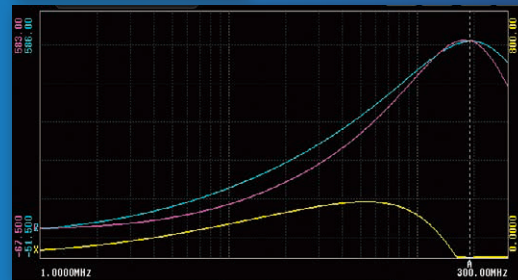
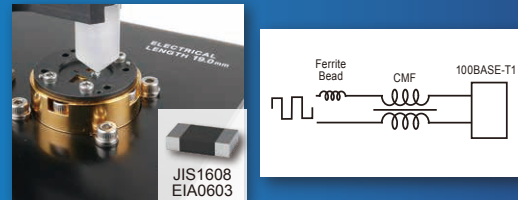
■ Chip inductor measurement

- Detect an inductor's self-resonant frequency (SRF) using the peak search function.
- Identify the frequency band in which a component operates as an inductor.



■ Ferrite bead measurement

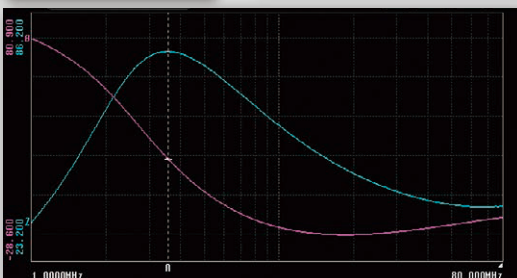
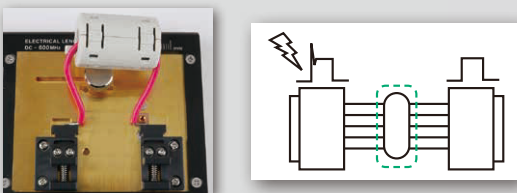
- Perform frequency sweep measurement of up to four parameters at a time.
- Identify Rs-Z-X data in an instant. Knowing these values are essential for assessing ferrite bead characteristics.



IM9202 Examples of measurements

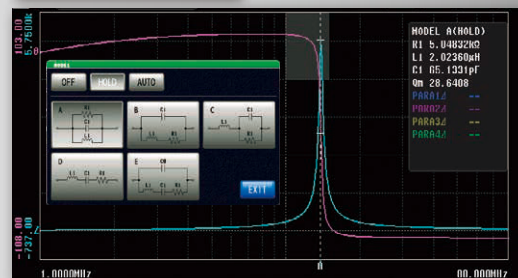
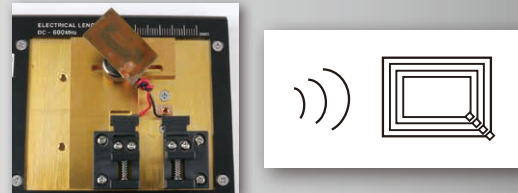
■ Ferrite core measurement

- Measure ferrite cores while they're affixed to cables.
- Use the peak search function to ascertain the frequency bands in which a ferrite core exhibits noise-suppressing effects at a glance.



■ RFID tag measurement

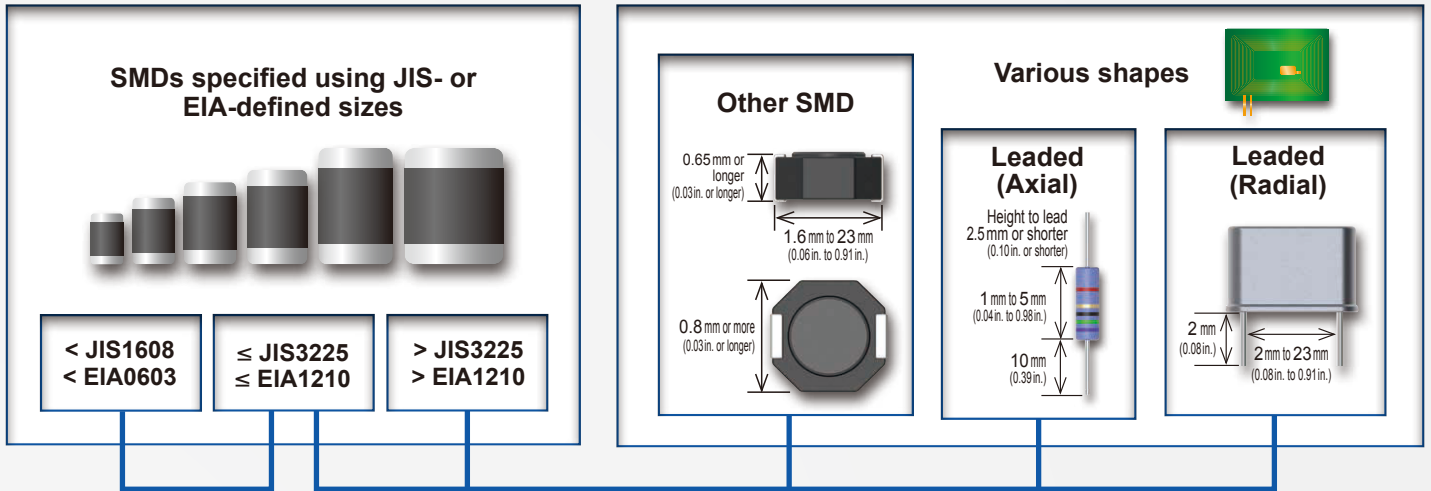
- Measure unusually-shaped components like RFID tags under development.
- Easily evaluate the characteristics of RFID tags using peak judgment and equivalent circuit analysis functionality.



Selection chart

Choose the optimal test fixture and impedance analyzer model based on your desired measurement frequency and the size of the electronic component to be measured.

1 Shapes and sizes of electronic components

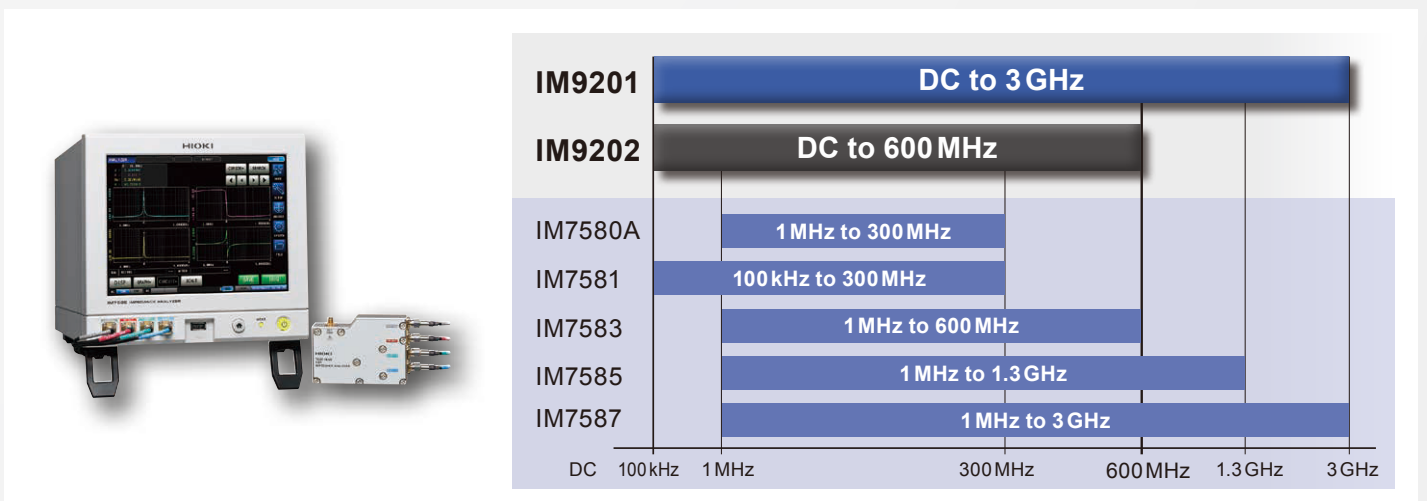


2 Optimal test fixture

IM9201
DC to 3 GHz

IM9202
DC to 600 MHz

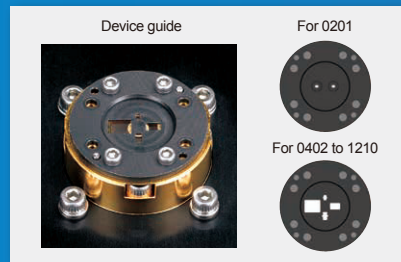
3 Frequency range comparison of impedance analyzers and test fixtures



IM9201

High-frequency measurement at up to 3 GHz for 6 SMD sizes

2 device guides let you measure 6 different SMD sizes



Basic specifications

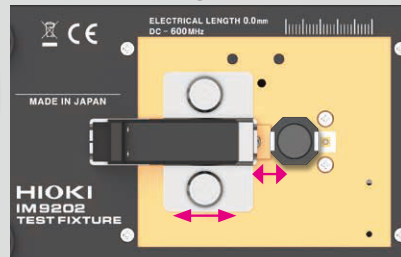
Frequency range	DC to 3 GHz
Dimensions of measurable DUT (EIA)	0201, 0402, 0603, 0805, 1206, 1210
Electrode structure	2-terminal connection to bottom electrodes
Maximum voltage	±42 V _{peak} (AC + DC)
Additional error	Impedance: ±Z _e [%] Phase: θ _e = ±0.58 × Z _e [°] Z _e = Ae + (Z _{se} /Z _x + Y _{oe} × Z _x) × 100 Z _x : Impedance measurement value [Ω] Ae: 4 × f [%] Z _{se} : (100 + 500 × f)/1000 [Ω] Y _{oe} : (10 + 100 × f)/1000000 [S] f [GHz]
Accessories	Short plate (5 types), GND plate (2 types), Device guide (2 types), etc.

IM9202

Single solution for measuring electronic components in an array of shapes and sizes



When measuring SMDs



Basic specifications

Frequency range	DC to 600 MHz			
Measurable DUT	Lead	Axial	Distance between leads (component length)	1 mm to 25 mm (0.04 in. to 0.98 in.)
		Radial	Lead length	2 mm to 10 mm (0.08 in. to 0.39 in.)
			Height to lead	2.5 mm or shorter (0.10 in. or shorter)
	SMD	Distance between leads	Lead length	2 mm to 26 mm (0.08 in. to 1.02 in.)
			Lead length	2 mm or longer (0.08 in. or longer)
		Component length	1.6 mm to 23 mm (0.06 in. to 0.91 in.)	
Component width	0.8 mm or longer (0.03 in. or longer)			
Component height	0.65 mm or longer (0.03 in. or longer)			
Electrode structure	2-terminal connection to side electrodes			
Maximum voltage	±42 V _{peak} (AC + DC)			
Accessories	Short plate, SMD open compensation jig, etc.			

Options

The following accessories are required when using the test fixture with the Hioki IM7580 series. For more information about the test fixtures and calibration kit bundles, please contact your Hioki distributor.



Combination example: 1 MHz to 600 MHz measurement

IMPEDANCE ANALYZER	IM7583
TEST FIXTURE	IM9201
TEST FIXTURE STAND	IM9200
ADAPTER (3.5 mm to 7 mm) (0.14 in. to 0.28 in.)	IM9906
CALIBRATION KIT	IM9905

Product/ Order code

Product name	Product code	Order code
SMD TEST FIXTURE	IM9201	IM9201
TEST FIXTURE	IM9202	IM9202
TEST FIXTURE STAND	IM9200	IM9200
ADAPTER (3.5 mm to 7 mm) (0.14 in. to 0.28 in.)	IM9906	IM9906
CALIBRATION KIT	IM9905	IM9905

Combination example: 100 kHz to 300 MHz measurement

IMPEDANCE ANALYZER	IM7581
TEST FIXTURE	IM9202
TEST FIXTURE STAND	IM9200
ADAPTER (3.5 mm to 7 mm) (0.14 in. to 0.28 in.)	IM9906
CALIBRATION KIT	IM9905

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