HIOKI

SMD TEST FIXTURE IM9201
TEST FIXTURE IM9202

NEW

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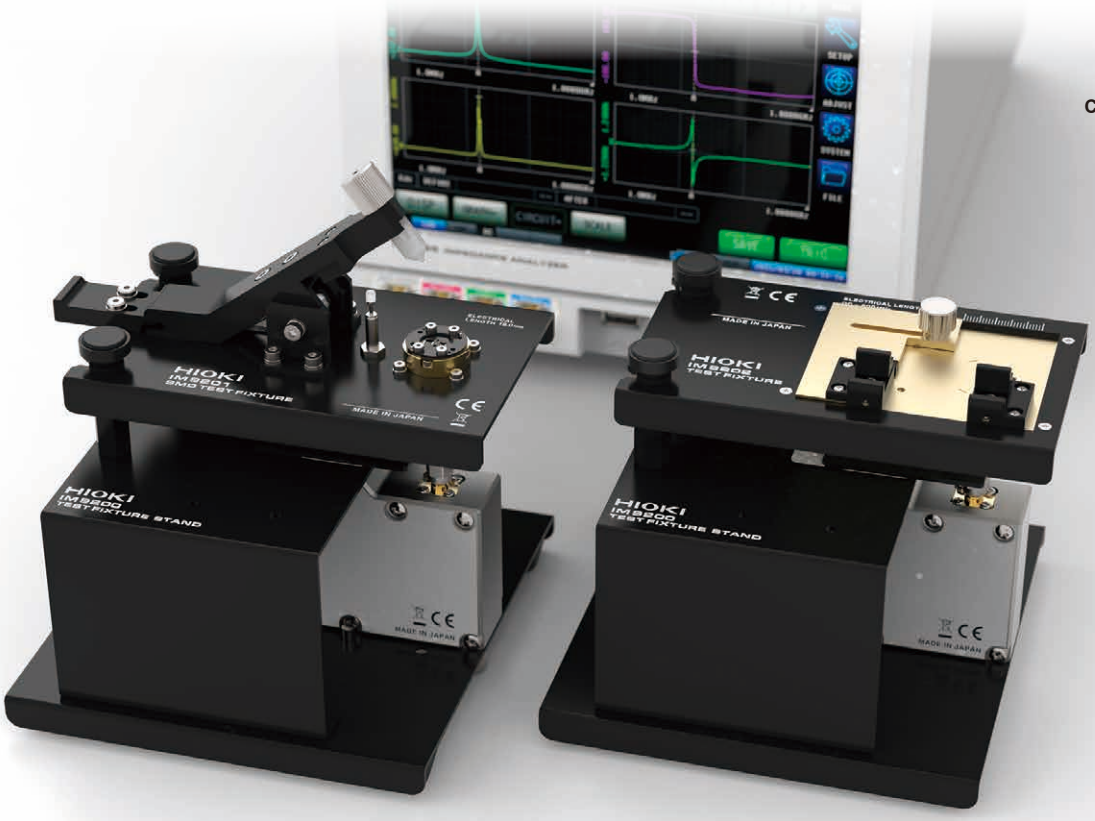
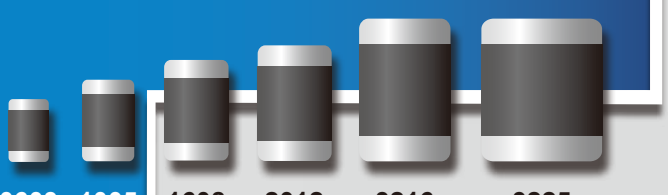


Measure What You Want to Measure by our Test Fixtures

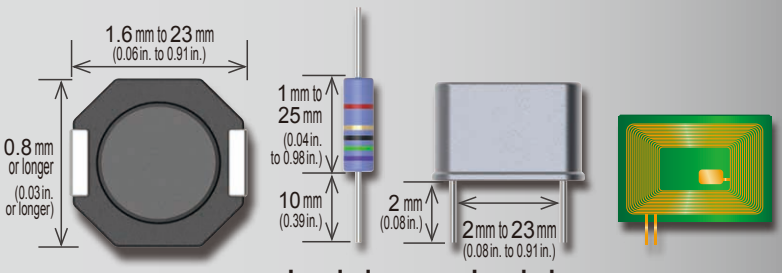
CE

IM9201 DC to 3 GHz



0603 (EIA0201) 1005 (EIA0402) 1608 (EIA0603) 2012 (EIA0805) 3216 (EIA1206) 3225 (EIA1210)

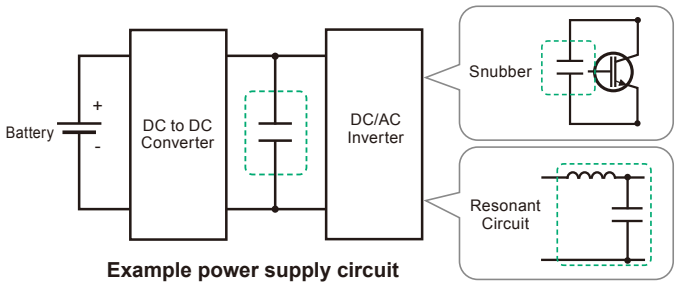
IM9202 DC to 600 MHz



Large SMD | Leaded (Radial) | Leaded (Axial) | Various shapes

Applications

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



Example power supply circuit

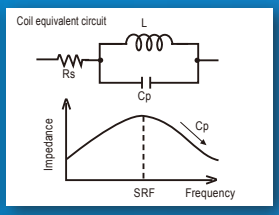
Example: Measuring the high-frequency characteristics of an electronic component

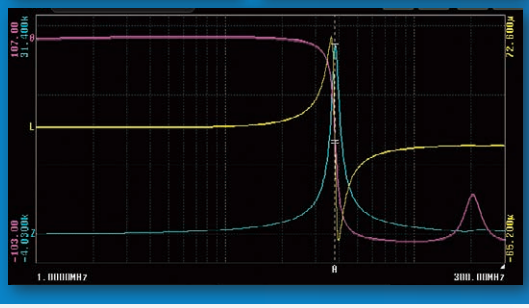
Today's power supply circuits, which run at increasing high operating frequencies, incorporate numerous electronic components. Pair a test fixture with the IM7580 Impedance Analyzer to measure the high-frequency characteristics of electronic components.

IM9201 Examples of measurements

Chip inductor measurement

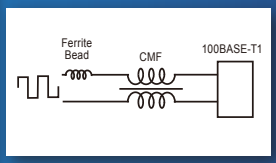
- Detect an inductor's self-resonant frequency (SRF) using the peak search function.
- Identify the frequency band in which a component operates as an inductor.

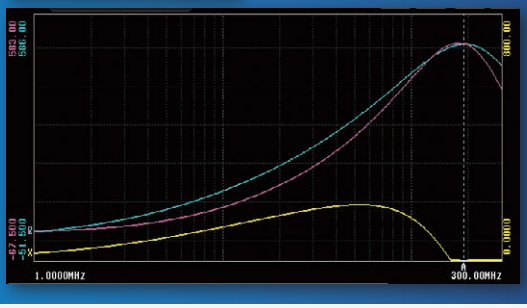




Ferrite bead measurement

- 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.

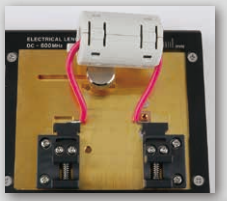


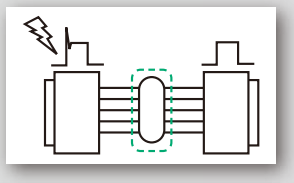


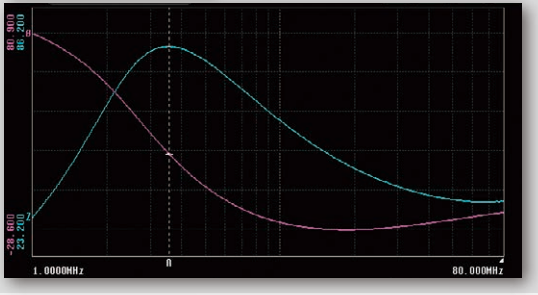
IM9202 Examples of measurements

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.

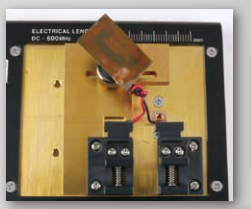


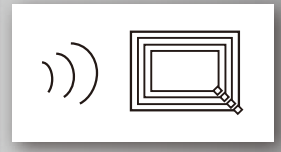


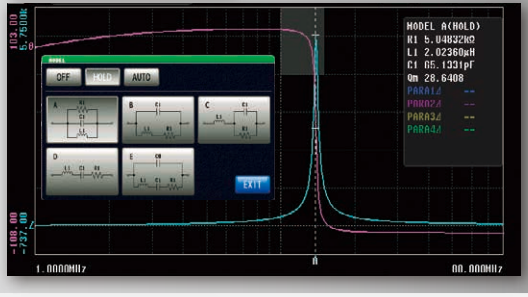


RFID tag measurement

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



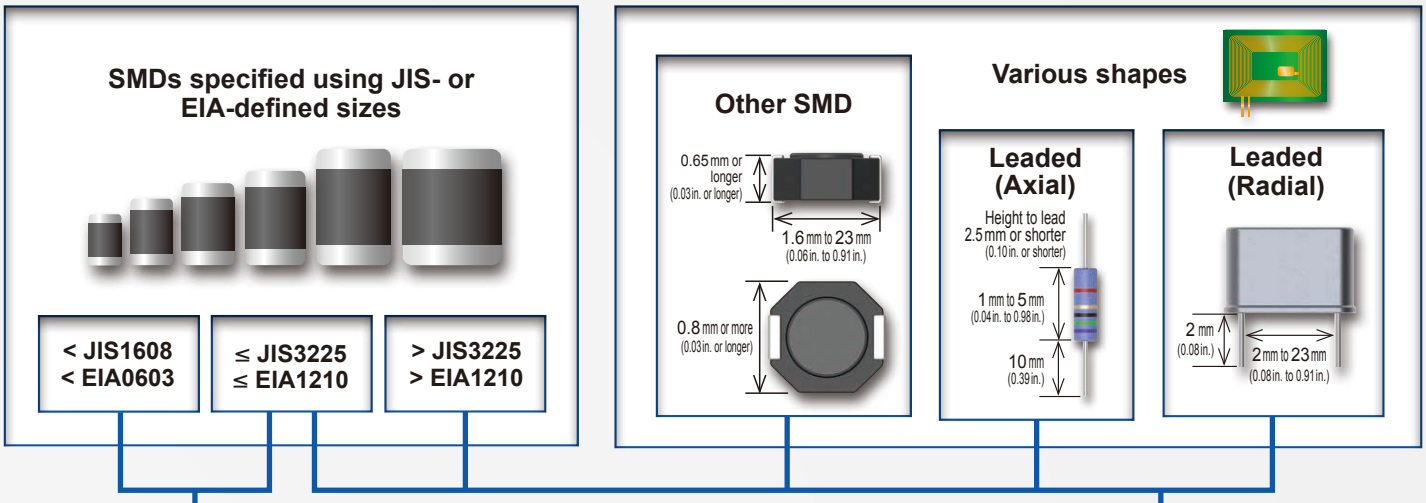




Selection chart

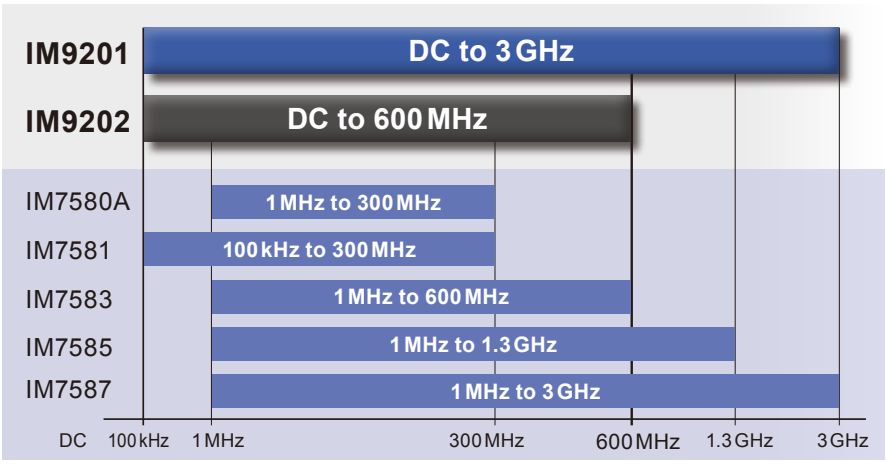
Choose the optimal test fixture and impedance analyzer model based on your desired measurement frequency and the size of the electronic component to be measured.

1 Shapes and sizes of electronic components



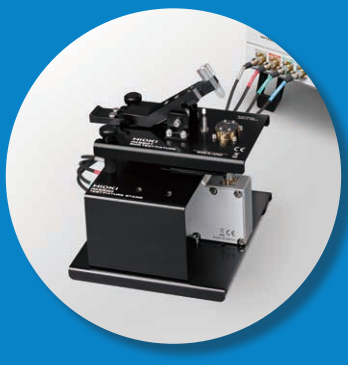
2 Optimal test fixture

3 Frequency range comparison of impedance analyzers and test fixtures

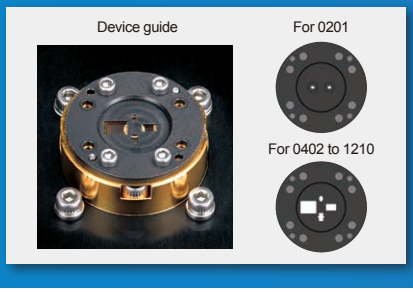


IM9201

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



2 device guides let you measure 6 different SMD sizes



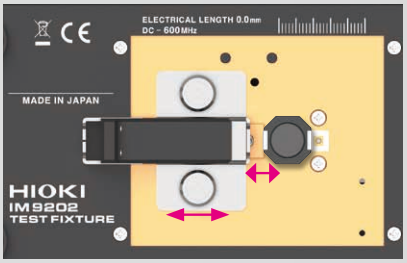
Basic specifications

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 Vpeak (AC + DC)
Additional error	Impedance: ±Ze [%] Phase: θe = ±0.58 × Ze [°] Ze = Ae + (Zse/Zx + Yoe × Zx) × 100 Zx: Impedance measurement value [Ω] Ae: 4 × f²[%] Zse: (100 + 500×f)/1000 [Ω] Yoe: (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

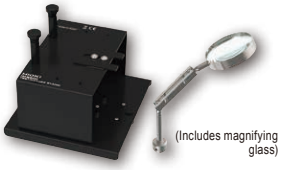
Frequency range	DC to 600 MHz			
Measurable DUT	Lead	Axial	Distance between leads (component length)	1 mm to 25 mm (0.04 in. to 0.98 in.)
			Lead length	2 mm to 10 mm (0.08 in. to 0.39 in.)
			Height to lead	2.5 mm or shorter (0.10 in. or shorter)
		Radial	Distance between leads	2 mm to 26 mm (0.08 in. to 1.02 in.)
			Lead length	2 mm or longer (0.08 in. or longer)
	SMD		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 Vpeak (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.

CALIBRATION KIT
IM9905

ADAPTER (3.5mm to 7mm)
(0.14 in. to 0.28 in.)
IM9906



TEST FIXTURE STAND
IM9200

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

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

Product/ Order code

Product name		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

DISTRIBUTED BY

HIOKI E.E. CORPORATION

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All information correct as of Sept. 15, 2020. All specifications are subject to change without notice.
IM9201_IM9202E1-09M Printed in Japan