

EMV Near-Field Probe Set up to 3 GHz

HZ540 and HZ550 EMI-Near Field Probe Sets

The HZ540/550 are the ideal toolkits for the investigation of RF electromagnetic fields. They are indispensable for EMI pre-compliance testing during product development, prior to third party testing. The sets include 3 or. 5 hand-held probes with built-in preamplifier covering the frequency range from < 1MHz to approx. 3000MHz.

The probes of the basic set HZ540 include one magnetic field probe, one electric field probe, and a high impedance probe. In addition to the HZ550 features an optional μ -magnetic field probe and a passive radiation probe. All probe outputs are matched to the 50Ω inputs of spectrum analyzers or RF-receivers.



Probe set HZ540 (Basic set)

HZ551	Electrical Field Probe
Frequency range:	<1 MHz to approx. 3GHz
Directional sensitivity:	omnidirectional
	Sensitive to electrical fields
Output impedance:	50Ω; SMA-connector
Power supply:	6VDC/80 mA
	(directly by HAMEG Spectrum
	Analyzer)

	HZ552	Magnetic Field Probe
	Frequency range:	<30MHz to approx. 3GHz
	Directional sensitivity:	similar to frame antenna
		Sensitive to changing magnetic fields
	Output impedance:	50Ω; SMA-connector
	Power supply:	6VDC/50mA
		(directly by HAMEG Spectrum
		Analyzer)

HZ553	High Impedance Probe
Frequency range:	<1MHz to approx. 3GHz
Input capacity:	<2pF II approx. 250kΩ
Attenuation:	between 10:1 and 30:1
Max. input voltage:	10V _{pp} (without significant distortion)
Max. voltage of an	''
uninsulated conductor:	30V
Output impedance:	50Ω; SMA-connector
Power supply:	6VDC/80mA
	(directly by HAMEG Spectrum
	Analyzer)
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Dhysical dimensions	(II v M v I) 12 v 27 v 70 mm

Physical dimensions: [H x W x L]: 13 x 27 x 70 mm (+ antenna at HZ551)

HZ540 consists of: HZ551 Electrical Field Probe HZ552 Magnetic Field Probe HZ553 High Impedance Probe 1 SMA to N-Cable 1.2 m

Case Manual

Probe set HZ550

HZ554	Magnetic Field Probe (small sensor)
Frequency range:	< 50 MHz to approx. 3 GHz
Directional sensitivity:	Sensitive to changing magnetic fields High spatial resolution due to very small sensor area
Max. voltage of a non-insulated conductor:	30 V
Output impedance:	50 Ω; SMA-connector
Power supply:	6VDC/50 mA

HZ556	Radiation Probe
Frequency range:	<30MHz to approx. 3GHz
Directional sensitivity:	like frame antenna
	Radiation of changing magnetic fields
Max. input power:	0.5 W (short term)
Output impedance:	50 Ω; SMA-connector
Power supply:	not required; passive probe
Physical dimensions:	(H x W x L): 13 x 27 x 70 mm (+ antenna at HZ551)
HZ550 consists of:	1 HZ540 basic set 1 HZ554 Magnetic Field Probe 1 HZ556 Radiation Probe

Probe set HZ540L and HZ550L

HZ540L = HZ540 (without HZ553) + HZ555 Low Capacitance Probe HZ550L = HZ550 (without HZ553) + HZ555 Low Capacitance Probe

HZ555	Low Capacitance Probe
Frequency range:	approx. 400kHz3GHz
Input impedance:	<0.2 pF // 250kΩ
Attenuation:	10:1
Max. input voltage:	$5V_{pp}$
Max. voltage of a	.,
non-insulated conductor:	30V
Output impedance:	50Ω; SMA-connector
Power supply:	6VDC/80 mA