

HZ540/HZ550 EMV Near-Field Probe Set up to 3GHz



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 an antenna. All probe outputs are matched to the 50Ω inputs of spectrum analyzers or RF-receivers.

Probe Set HZ540 (Basic Set)

HZ551	Electrical Field Probe	HZ554	Magnetio
Frequency range:	<1MHz to approx. 3GHz	Frequency range:	<50MHz
Directional sensitivity:	omnidirectional	Directional sensitivity:	Sensitive
	Sensitive to electrical fields		High spa
Output impedance:	50Ω; SMA-connector		small se
Power supply:	6V _{dc} /80mA	Max. voltage of a	
	(directly from HAMEG Spectrum	non-insulated conductor:	30V
	Analyzer)	Output impedance:	50Ω; SM
		Power supply:	6V _{dc} /50n
HZ552	Magnetic Field Probe	HZ556	Active ar
Frequency range:	<30MHz to approx. 3GHz	Frequency range:	<30MHz
Directional sensitivity:	similar to a frame antenna	Directional pattern:	like a fra
	Sensitive to changing magnetic fields		Radiatio
Output impedance:	50Ω; SMA-connector	Max. input power:	0.5W (sh
Power supply:	6V _{dc} /50mA	Output impedance:	50Ω; SM
	(directly from HAMEG Spectrum	Power supply:	not requ
	Analyzer)		
		Physical dimensions:	13 x 27 x
			(+ anteni
HZ553	High Impedance Probe	HZ550 consists of:	1 HZ540
Frequency range:	<1MHz to approx. 3GHz		1 HZ554
Input capacity:	<2pF II approx. 250kΩ		1 HZ556
Attenuation:	between 10:1 and 30:1		1 SMA to
Max. input voltage:	10V _{pp} (without significant distortion)		
Max. voltage of a		Probe Set HZ540L and HZ5	50L
non-insulated conductor:	30V		
Output impedance:	50Ω; SMA-connector		
Power supply:	6V _{dc} /80mA	HZ540L = HZ540 (without H	IZ553) + HZ
	(directly from HAMEG Spectrum	HZ550L = HZ550 (without H	IZ553) + HZ
	Analyzer)		
		HZ555	Low Cap
Physical dimensions:	13 x 27 x 70mm (W x H x D)	Frequency range:	approx. 4
	(+ antenna at HZ551)	Input impedance:	<0.2pF /,
HZ540 consists of:	HZ551 Electrical Field Probe	Attenuation:	10:1
	HZ552 Magnetic Field Probe	Max. input voltage:	$5V_{pp}$
	HZ553 High Impedance Probe	Max. voltage of a	
	1 SMA to N-Cable 1.2m	non-insulated conductor:	30V
	Case	Output impedance:	50Ω; SM
	Manual	Power supply:	6V _{dc} /80n

Probe Set HZ550

HZ554	Magnetic Field Probe (small sensor)		
Frequency range:	<50MHz to approx. 3GHz		
Directional sensitivity:	Sensitive to changing magnetic fields High spatial resolution due to very small sensor area		
Max. voltage of a			
non-insulated conductor:	30V		
Output impedance:	50Ω; SMA-connector		
Power supply:	6V _{dc} /50mA		
HZ556	Active antenna		
Frequency range:	<30MHz to approx. 3GHz		
Directional pattern:	like a frame antenna		
	Radiation of changing magnetic fields		
Max. input power:	0.5W (short term)		
Output impedance:	50Ω; SMA-connector		
Power supply:	not required; passive probe		
Physical dimensions:	13 x 27 x 70mm (W x H x D) (+ antenna at HZ551)		
H7550 consists of:	1 HZ540 Basic Set		
H2550 CONSISTS OF:			
	1 HZ554 Magnetic Field Probe 1 HZ556 Active antenna		
	1 SMA to N-Cable 1 2m		
	I SMA IO N-CADLE 1.2M		
Probe Set HZ540L and HZ550L			

IZ555 Low Capacitance Probe IZ555 Low Capacitance Probe

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