

HZ540 / HZ550

Nearfield probe set

Technical Data



Key facts

- ▮ Locating radiated emission sources
- ▮ Localisation of EMI sensitive devices
- ▮ Checks on shielding effectiveness
- ▮ Diagnosis of radiated signals
- ▮ Identification of radiating components
- ▮ Nearfield probe set HZ540 consists of probes HZ551, HZ552, HZ553 (Basic Set)
- ▮ Nearfield probe set HZ550 consists of the Basic Set and the probes HZ554, HZ556

Technical Data

Nearfield Probe Set

HZ540(L) / HZ550(L)

Valid at 23°C after a 30 minutes warm-up period

HZ551 Electric Field Probe

Frequency range:	1 MHz to approx. 3 GHz
Directional sensitivity:	Omnidirectional, Sensitive to electrical fields
Output impedance:	50 Ω; SMA-connector
Power supply:	6 V / 80 mA

HZ552 Magnetic Field Probe

Frequency range:	<30 MHz to approx. 3 GHz
Directional sensitivity:	like frame antenna, Sensitive to changing magnetic fields
Output impedance:	50 Ω; SMA-connector
Power supply:	6 V / 80mA

HZ553 High Impedance Probe

Frequency range:	<1 MHz bis ca. 3 GHz
Input impedance:	<2 pF 250 kΩ
Attenuation:	in the range of approx. 10:1 up to 30 : 1
Max. input voltage:	10 Vpp
Max. voltage of a non-insulated conductor:	30 V
Output impedance:	50 Ω; SMA-connector
Power supply:	6 V / 80 mA

HZ554 Magnetic Field Probe (small sensor)

Frequency range:	<50 MHz to approx. 3 GHz
Directional sensitivity:	like frame antenna, 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:	6 V / 80 mA

HZ555 Niedrig-Kapazitive-Sonde

Frequency range:	0.25 MHz to approx. 3 GHz
Input impedance:	<0,2 pF 250 kΩ
Attenuation:	10 : 1
Max. input voltage:	5 Vpp
Max. voltage of a non-insulated conductor:	30 V
Output impedance:	50 Ω; SMA-connector
Power supply:	6 V / 80 mA

HZ556 Radiation Probe

Frequency range:	<30 MHz to approx. 3 GHz
Directional sensitivity:	like frame antenna. Sensitive to changing magnetic fields, Radiation of changing magnetic fields
Max. input power:	0.5 W (short term)
Output impedance:	50 Ω; SMA-connector

Divers

Dimensions (H x W x L)::	13 x 27 x 70 mm (+ antenna at HZ551)
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Power supply from HAMEG Series 5000 Spectrum analyzers

Package content:

Probe	Probe-Set HZ540	Probe-Set HZ540 L	Probe-Set HZ550	Probe-Set HZ550 L
HZ551	•	•	•	•
HZ552	•	•	•	•
HZ553	•		•	
HZ554			•	•
HZ555		•		•
HZ556			•	•

Accessories included:

HZ540 1 HZ551 Electrical Field Probe
1 HZ552 Magnetic Field Probe
1 HZ553 High Impedance Probe
1 SMA to N-Cable 1.2 m
Case
User manual

HZ550 1 HZ540 Basic Set
1 HZ554 Magnetic Field Probe
1 HZ556 Active antenna
1 SMA to N-Cable 1.2 m

Probe Set HZ540L und HZ550L

LHZ540L = HZ540 (without HZ553) + HZ555 Low Capacitance Probe
HZ550L = HZ550 (without HZ553) + HZ555 Low Capacitance Probe