



## Two-line V-Network ESH3-Z5

for measuring RFI voltages on single-phase DUTs

- Frequency range 9 kHz to 30 MHz
- V-network to VDE, CISPR and MIL-STD-461/462D
- Air-core inductance design
- Artificial hand
- PE simulating network, can be bypassed
- Remote control with TTL levels



**ROHDE & SCHWARZ**

## Characteristics, uses

The V-Network ESH3-Z5, ( $50\mu\text{H} + 5\Omega$ ) ||  $50\Omega$ , complies with VDE 0876 regulations and CISPR Publ. 16. It uses air-core inductances and comprises an artificial hand as well as a PE simulating network ( $50\mu\text{H}$  ||  $50\Omega$ ) that can be bypassed.

ESH3-Z5 is provided with a 16-A PE power socket for the connection of DUTs. This socket can be modified by the user for adapting it to other country-specific connector systems.

For remote control (line selection and switch-on of PE simulating network) in automatic test systems, TTL inputs are provided that can be used by Rohde & Schwarz process controllers and test receivers. Its compact design and low weight make the ESH3-Z5 an ideal choice for frequently varying applications, in particular for the measurement of RFI voltages on single-phase DUTs. It should however be noted that artificial networks of this kind meeting standard specifications produce high leakage currents so that the network should be connected to a low-impedance PE system. To avoid any uncertainties it would be useful to employ an isolating transformer. For protecting the test receivers it is recommended to connect the Pulse Limiter ESH3-Z2 to the test receiver input. Test Receivers ESHS, ESS, ESAI, ESBI and ESMI from Rohde & Schwarz are provided with internal protection circuits.

## Specifications

Frequency range	9 kHz to 30 MHz
Impedance characteristic of V-network (to VDE 0876)	$(50\mu\text{H} + 5\Omega)    50\Omega$
Error limits (to VDE 0876)	$\pm 20\%$
Rated current	$2 \times 10\text{ A}$
Max. permissible current (for up to 30 min.)	$2 \times 16\text{ A}$
Max. permissible AC supply voltage against reference ground	$250\text{ V}_{\text{rms}}$
Max. permissible AC supply frequency	63 Hz
<b>Connectors</b>	
AC supply voltage input	male with protective earthing and cable 1.8 m
AC supply voltage output for DUT	female with protective earthing
RF output	BNC female
Remote control input	9-contact Cannon female
Input for artificial hand	4-mm telephone jack
<b>General data</b>	
Nominal temperature range	0 to $+50\text{ }^\circ\text{C}$
Storage temperature range	$-25$ to $+70\text{ }^\circ\text{C}$
Dimensions (W x H x D)	219 mm x 147 mm x 350 mm
Weight	5.5 kg
<b>Order designation</b>	
	Two-line V-Network ESH3-Z5 831.5518.52
<b>Accessories supplied</b>	
Cannon connector, 9-contact, male	063.4378.00
with shell	243.1223.00
and clip	243.1098.00
PE connector, male	018.3299.00
Manual	



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