

R&S® ESH3-Z6

V-Network

For measuring disturbance voltage and susceptibility in low-impedance power supply networks



R&S®ESH3-Z6

V-Network

At a glance

The R&S®ESH3-Z6 single-phase V-network with a simulating impedance of $5 \mu\text{H} \parallel 50 \Omega$ meets the requirements of EN 55025/CISPR 25 as well as MIL-STD-461¹⁾, DEF-STAN 59-411 and DO-160 in the frequency range from 100 kHz to 200 MHz.

The R&S®ESH3-Z6 is rated for a continuous current of up to 100 A and can handle surges of up to 500 A for a maximum of 30 s.

The R&S®ESH3-Z6 V-network comes with a calibration report for the voltage division factor.

Design

The R&S®ESH3-Z6 V-network has screw terminals with a large contact area for low-impedance connection to the equipment under test (EUT) and the power supply using cable lugs. Plastic covers on both connections protect against accidental contact.

Key facts

- 0.1 MHz to 200 MHz
- Continuous current of up to 100 A
- Calibration in line with CISPR 25: 2016 (Edition 4)

¹⁾ The current MIL-STD-461 standard requires an impedance of $50 \mu\text{H} \parallel 50 \Omega$. A possible alternative for CE101 and CE102 testing is $5 \mu\text{F} \parallel 50 \Omega$, e.g. for smaller platforms (power distribution less than 50 m) such as fighter aircraft.

Specifications

| Specifications | |
|--|---|
| Frequency range | 0.1 MHz to 200 MHz |
| Simulating impedance | 5 μ H 50 Ω |
| Max. permissible error limits (in line with CISPR 25) | $\pm 20\%$ (magnitude) |
| Max. permissible continuous current | 100 A |
| Max. permissible continuous current (up to $T_o = +35^\circ\text{C}$) | 115 A |
| Max. permissible short-time current (up to 30 s) | 500 A |
| Max. permissible operating voltage | |
| DC | 600 V |
| AC | 250 V |
| AC supply frequency range | 0 Hz to 440 Hz |
| Connectors | |
| Power supply | M8 screw terminal |
| EUT | M8 screw terminal |
| Ground | 2 x M8 screw terminals |
| Reference ground | uninsulated baseplate for screwing on ground plane |
| RF connector | N female |
| General data | |
| Operating temperature range | 0°C to +50°C |
| Storage temperature range | -25°C to +70°C |
| Dimensions (W x H x D) | 122 mm x 128 mm x 322 mm (4.8 in x 5.04 in x 12.7 in) |
| Weight | 1.9 kg (4.19 lb) |
| Electrical safety | in line with EN 61010-1, see notes in manual |

Ordering information

| Designation | Type | Order number |
|--|-------------|--------------|
| V-network | R&S®ESH3-Z6 | 836.5016.52 |
| Accessories supplied | | |
| Cable lugs (4 x), calibration report for voltage division factor | | |

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- | Local and personalized
- | Customized and flexible
- | Uncompromising quality
- | Long-term dependability

Rohde & Schwarz

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ISO 14001



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