

## T-Networks ESH3-Z4, EZ-10

Artificial mains networks for symmetrical interfaces

ESH3-Z4: 9 kHz to 150 MHz

EZ-10

Model 02: 9 kHz to 150 MHz

Model 03: 0.15 to 150 MHz



Photo 39362

## Brief description

T-networks are used to measure asymmetrical RFI voltage of devices with symmetrically driven communication, data, audio frequency and control lines and they are also employed as coupling networks to measure the susceptibility of such devices to conducted asymmetrical RFI voltages.

Both networks comply with IEC1000-4-6 and FTZ Regulation 12TR1.

## Specifications in brief

Frequency range of asymmetrical RFI voltage  
Load impedance for asymmetrical RFI voltage  
Voltage attenuation in measurement circuit

Passband ( $BW_{0dB}$ ;  $Z_{bal} = 100 \Omega$ )  
Unbalance rejection

Isolation

Max. RF input voltage (asymm.)  
Max. DC/AF AC between line and ground  
Max. DC current (phantom current, forward and return)  
Input/output for test receiver/signal generator  
Connectors for EUT and line  
Dimensions (W x H x D)  
Weight

## ESH3-Z4

Two-wire T-Network ESH3-Z4 complies with the following standards:

VDE0878 Part 1 (12/86),  
VDE0878 Part 2 (draft 12/86),  
VDE0878 Part 200 (12/92),  
IEC Draft IEC 1000-4-6 and  
VG95377 Part 14 (12/84).

## EZ-10

Four-wire T-Network EZ-10 is used for EMC measurements on devices and

systems with two pairs of symmetrical lines with and without phantom powering, eg ISDN communications equipment with SO-bus interface. Model 03 is also suitable for EMC measurements on high-impedance interfaces.

## Main features

- High unbalance rejection
- High isolation
- Low capacitance
- High RF power-handling capability

## ESH3-Z4

9 kHz to 150 MHz  
 $150 \Omega \pm 20\%$   
 $10 \pm 1$  dB  
  
>10 MHz  
>80 dB (10 kHz)  
>25 dB (150 MHz)  
>20 dB (10 kHz)  
>70 dB (150 MHz)  
17 V rms  
100 V  
150 mA on one line pair  
BNC female connectors  
4 mm jacks  
147 mm x 41 mm x 93 mm  
500 g

## EZ-10, model 02

9 kHz to 150 MHz  
 $150 \Omega \pm 20\%$   
9 kHz to 100 MHz:  $10 \pm 1$  dB  
100 to 150 MHz: <13 dB  
>10 MHz  
>80 dB (10 kHz)  
>25 dB (150 MHz)  
>20 dB (10 kHz)  
>60 dB (150 MHz)  
17 V rms  
200 V  
150 mA on one or different line pairs  
BNC female connectors  
4 mm jacks  
196 mm x 115 mm x 41 mm  
1 kg

## EZ-10, model 03

150 kHz to 150 MHz  
 $150 \Omega \pm 20\%$   
150 kHz to 100 MHz:  $10 \pm 1$  dB  
100 to 150 MHz: <13 dB  
>10 MHz  
>53 dB (1 MHz)  
>25 dB (150 MHz)  
>37 dB (150 kHz)  
>60 dB (150 MHz)  
17 V rms  
200 V  
BNC female connectors  
4 mm jacks  
196 mm x 115 mm x 41 mm  
1 kg

## Ordering information

TNetwork

0800.1510.52

0800.1215.02

0800.1215.03