

LISN-C16-50-10

150 Ω LISN (delta-AMN), 150 kHz - 30 MHz, 10A, 250 VAC/ 350 VDC)

(CISPR 16-2-1:2014+AMD1:2017)



1. Description

The model LISN-C16-50-10, a line impedance stabilization network (LISN), is a 150 Ω delta-AMN used to isolate equipment under test from an external power source in conducted EMI measurements standardized in CISPR 16-2-1:2014+AMD1:2017. The LISN provides a known impedance so that conducted emissions from the EUT can be accurately measured.

2. Features

- Compact system designed for 10 A, 150 kHz – 30 MHz
- Provides a defined symmetric and asymmetric impedance to improve test result repeatability
- In accordance with CISPR 16-2-1:2014+AMD1:2017

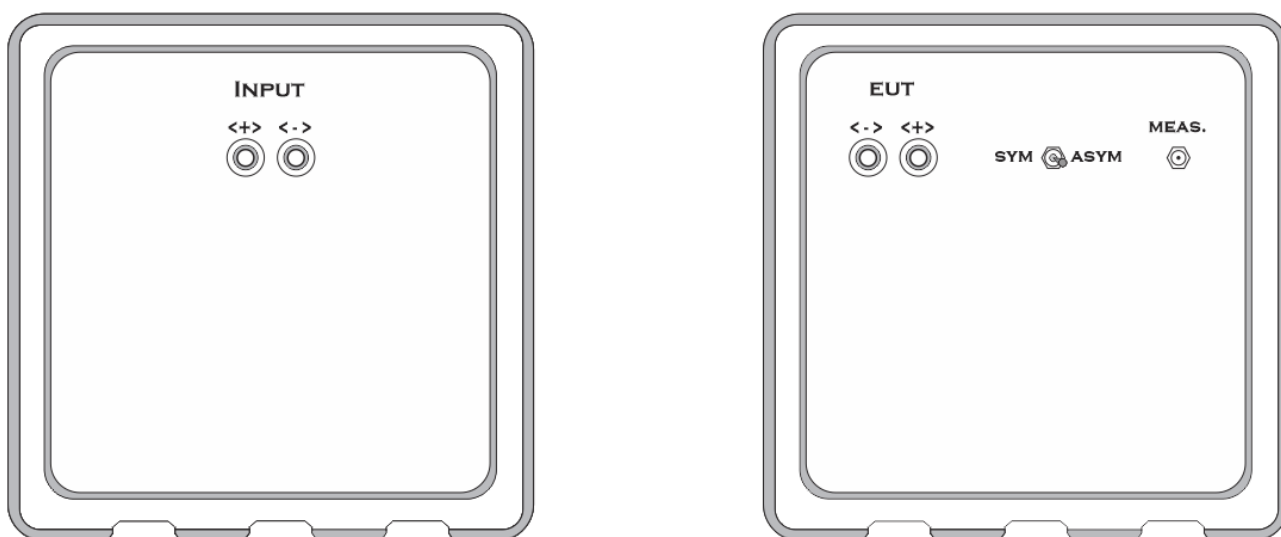
3. Applications

- General conducted emission measurement (EMC/EMI)
- Preventing high-frequency noise of the power source from coupling into a system

4. Specifications

Description of Parameter	Nominal value and tolerance
Frequency Range	150 kHz – 30 MHz
Asymmetric (CM) termination impedance at the EUT port, magnitude and phase	$(150 \pm 30) \Omega$ $(0 \pm 40)^\circ$
Symmetric (DM) termination impedance at the EUT port, magnitude and phase	$(150 \pm 30) \Omega$ $(0 \pm 40)^\circ$
Longitudinal conversion loss (LCL) at the EUT port	≥ 26 dB
Asymmetric (CM) insertion loss power/load port – EUT port	≥ 20 dB
Symmetric (DM) insertion loss power/load port – EUT port	≥ 26 dB
Discharge resistors for blocking capacitors in the current path	≥ 1.5 M Ω
Maximum input current	10 A (use external current limiting)
Maximum input voltage	250VAC / 350 VDC
Weight	4.3 lbs
Dimensions	8 x 5.5 x 5.5 in

5. Connections:



- The back panel (left-hand picture) has two banana connectors for the DC input. The polarity is labeled. Make sure to only input a maximum 250VAC / 350 VDC and 10 A. External current limiting is required to prevent exceeding the maximum current of 10A.
- The front panel (right-hand picture) has two banana connectors for the connection to the EUT. The switch is used to switch between symmetric and asymmetric mode and is labeled as such. The SMA connector connects to the user's measurement equipment.