

## Line Impedance Stabilization Networks / Artificial Mains Network for CISPR25 / ISO7637, Single line



LISN (Artificial Mains Network) is a low-pass filter typically placed between an AC or DC power source and the EUT (Equipment Under Test) to create a known impedance as per complying standard for the measurement of conducted emission. It also isolates the unwanted RF signals from the power source with pre-filter included. It provides a Radio frequency (RF) noise measurement port.

In addition LISN is used to predict conducted emission for diagnostic, pre-compliance and compliance testing.

Scientific designs and manufactures models in compliance with CISPR 16-1-2, EN, ANSI C63.4, FCC, ETS, VCCI and VDE, MIL461E/F standards and automotive for measurements in commonly used Standards.

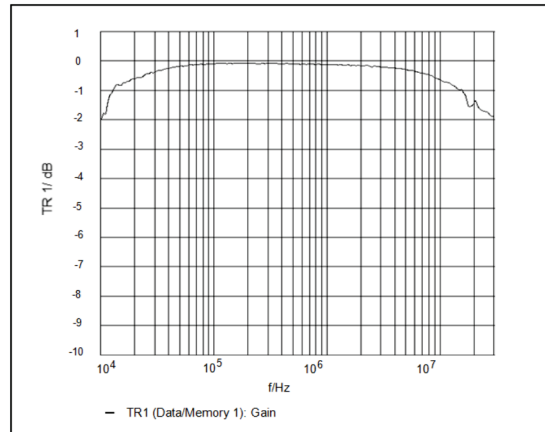
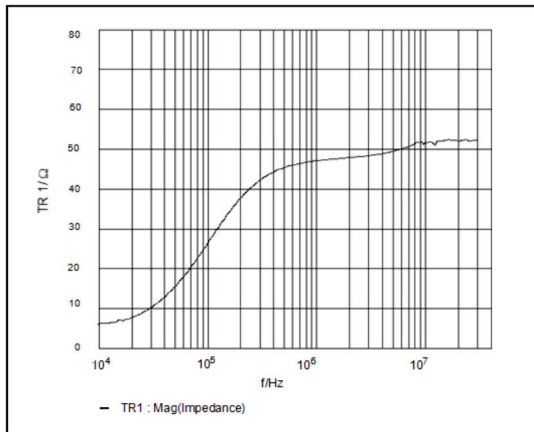
These single line LISNs are used in automotive industries and test labs for measurement of interface voltages in vehicles. EVs, Ships, Aircrafts etc. The characteristic impedance is designed as per CISPR of these LISNs is  $(5\mu\text{H} + 1\Omega) \parallel 50\Omega$

These LISN also can be used in immunity test by bulk current injection and transients as per ISO7637-2 standards.

A Transient limiter is highly recommended to use with LISN at the front end of EMI Rx or Spectrum Analyzer to protect measuring instrument from transients.

## Technical Specifications

Model	LIN25-1A	LIN100-1A	LIN200-1A	LIN400-1A
Frequency Range	100kHz – 150MHz			
AMN Impedance	$(5\mu\text{H} + 1\Omega) \parallel 50\Omega \pm 10\%$			
DC Resistance Mains to EUT	<5m $\Omega$			
Impedance at 50Hz	<5m $\Omega$			
Impedance at 400Hz	<15m $\Omega$			
Maximum AC / DC				
Continuous Load Current	25A	100A	200A	400A
Peak Current (15 min)	50A	120A	225A	425A
Maximum Input Voltage	AC : 300V, 50 / 60Hz , 130V @ 400Hz, DC : 600V (Optional 250V @ 400Hz)			
Standard	CISPR16-1-2/25, MIL461E/F, ISO 7637-2 Transients, BCI, DO-160			
RF Output	BNC (F) Connector 50 $\Omega$ to connect RF output to EMI receiver, Optional : N Type (F) Connector			
Mains Input & Output Terminals (EUT)	Wing Terminals Optional : Supercon			



LISNs are provided with the calibration data (insertion loss) and Impedance plot for all the lines with each individual unit.

Subject to change



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