

Line Impedance Stabilization Networks / Artificial Mains CISPR 16-1-2, Single Phase / Two Wire



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.

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.

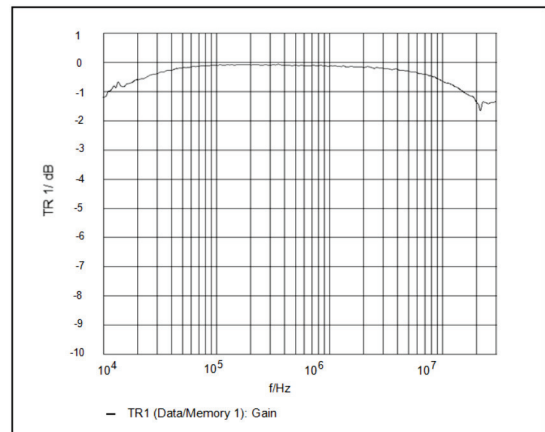
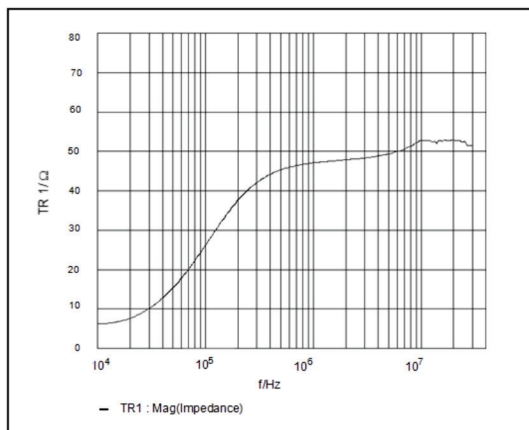
These LISNs are Single Phase, 2 Wire networks. Appropriate line can be selected by a rotary switch. The other line will be terminated internally with 50Ω.

Artificial Hand simulation 510Ω + 220pF impedance in accordance with CISPR 16-1-2 is provided. Standard Input and Output terminals provided are CEE Sockets, however optional wing terminal and SUPERCON connectors can be ordered.

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	LIN16-2	LIN32-2	LIN63-2
Frequency Range	9kHz – 30MHz		
AMN Impedance	$(50\mu\text{H} + 5\Omega) \parallel 50\Omega \pm 20\%$		
Pre-Filter Choke	250 μH		
Maximum AC / DC			
Continuous Load Current	16A	32A	63A
Peak Current (15 min)	24A	45A	80A
Maximum Input Voltage	AC : 300V, 50 / 60Hz , DC : 600V		
Standard	CISPR 16-1-2, ANSI 63.4, FCC		
RF Output	BNC (F) Connector 50 Ω to connect RF output to EMI receiver, Optional : N Type (F) Connector, Accessory for CM, DM measurements		
Switch Selection	Switch selectable for Line and Neutral		
Artificial Hand	510 Ω + 220pF, 4mm banana connector		
Mains Input & Output Terminals (EUT)	Schuko Optional : Supercon / Wing Terminal	CEE Optional : Supercon / Wing Terminal	



LISNs are provided with the calibration data (insertion loss) for all the lines. Impedance, Phase and Isolation curves are supplied with every individual unit.

Subject to change



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