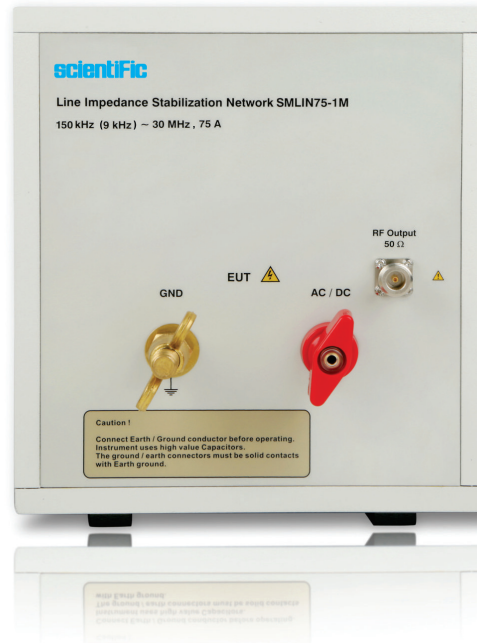


## Line Impedance Stabilization Networks / Artificial Mains Network MIL 461 E/F, Single line



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.

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 LISN are designed in accordance with MIL 461E/F, DO160 requirements. Characteristic impedance of these LISNs is  $(50\mu\text{H} + 5\Omega) \parallel 50\Omega$

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.

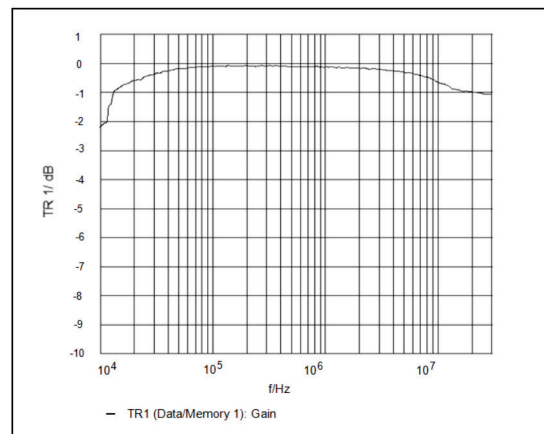
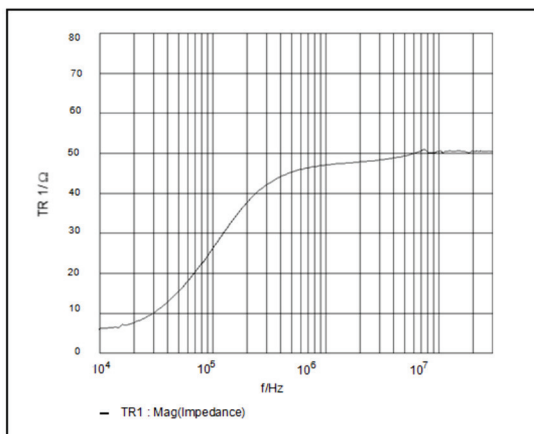
These LISN are provided with the calibration data (insertion loss) for all the lines. Impedance, Phase and Isolation curves are supplied with every individual unit.

## Technical Specifications

Model	SMLIN25-1M	SMLIN75-1M	SMLIN100-1M	SMLIN200-1M	SMLIN400-1M
Frequency Range	150 kHz (9 kHz) – 30 MHz (150 MHz)				
Maximum Load Current					
Continuous Current	25 A	75 A	100 A	200 A	400 A
Peak Current (15 min)	30 A	100 A	120 A	225 A	425 A
Maximum Input Voltage					
DC	600 V				
AC	300 V @ 50/60 Hz 130 V @ 400 Hz, 250 V @ 400 Hz (Optional)				
AMN Impedance	(50 $\mu$ H + 5 $\Omega$ )    50 $\Omega$ $\pm$ 20%				
DC Resistance	< 10 m $\Omega$				
Standard Reference	CISPR16-1-2/25, MIL461E/F, ISO 7637-2 Transients, BCI, DO-160				
RF Output Connector	BNC (F) 50 $\Omega$ Optional : N Type (F)	N Type (F) Connector			
Mains Input & Output Terminals (EUT)	Wing Terminal, Optional : Supercon				
All LISNs are provided with manufacturer's calibration data.					

### Available Options :

- Transient Limiter
- Calibration Certificate traceable to ISO/IEC 17025 standard
- 50  $\Omega$  Termination



Subject to Change

**scientific**

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