

Features

Single line design for flexibility

Coils matched to application

RF Shielding to minimize external interference

Individually Calibrated

Three Year Warranty



Description

Line impedance stabilization networks (LISNs) are utilized during conducted emissions as well as susceptibility testing. They are specified in the EMI test requirements of various regulatory agencies, such as FCC, CISPR, FAA and DOD. Com-Power manufactures a line of LISNs which meet most specifications required by these agencies.

One LISN is required for each line. Therefore, each line is separated by an aluminum enclosure which minimizes RF interference, facilitates line isolation and provides user flexibility to choose any number of lines depending on number of phases. The standard models are supplied as a pair of LISNs for two wire applications.

All LISNs manufactured by Com-Power use air-core coils to prevent saturation and permeability variation. Therefore, they provide stable performance over time. The bottom mounting plate of the LISNs has an unpainted, conductive surface. This allows the LISNs to be electrically bonded to the ground plane during the test. Each LISN is individually calibrated to verify correct impedance.

Application

The most important function of a LISN is to provide input power impedance to the EUT that is constant and independent of the line impedance. As a result, the test engineer will be able to gather consistent test data. In addition, the LISNs prevent the EMI receiver from detecting the noise emanating from other equipment on the power line.

Standard Configuration

- Two LISNs (separate assembly for each line)
- 4 Superior ® connectors
- Individual calibration data
- Manual & certification of calibration

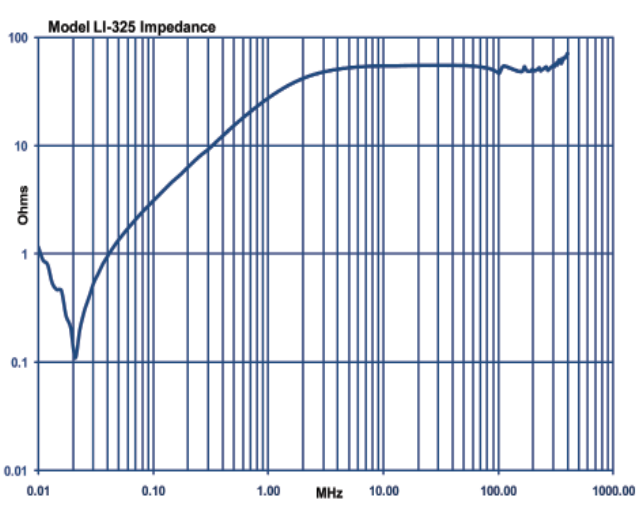
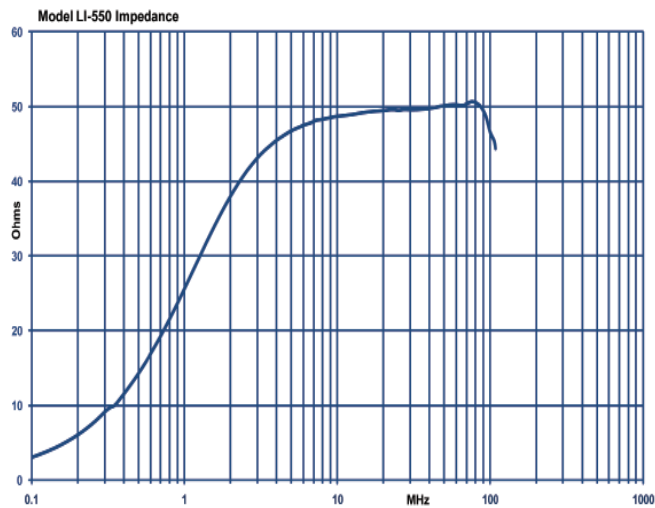
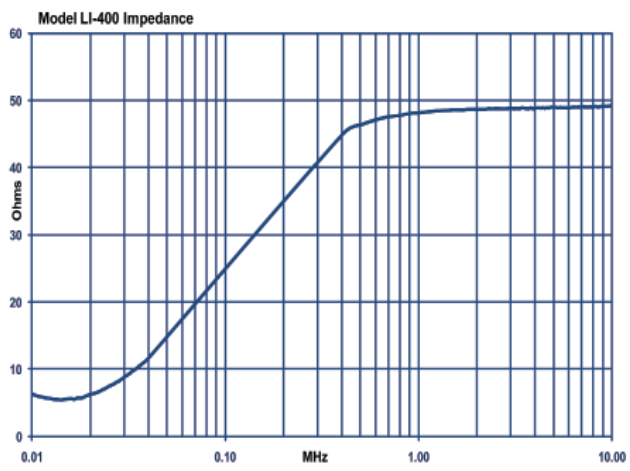
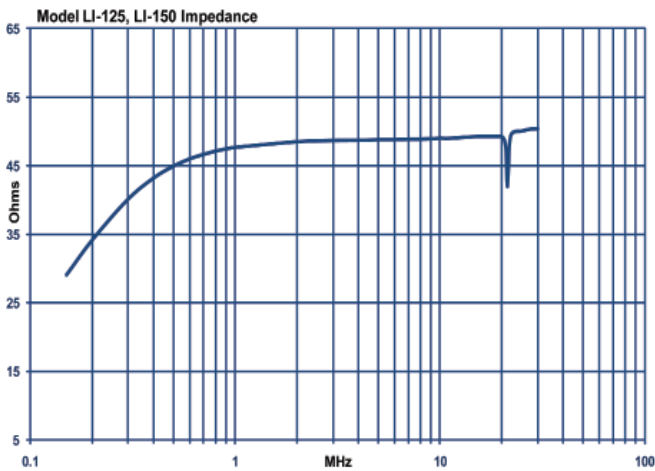
Application Table

Model	LI-125	LI-150	LI-325	LI-400	LI-550
FCC	x	x			
CISPR	x	x			
CE/EN/IEC	x	x			
VCCI	x	x			
AUSTEL	x	x			
MIL-STD			x	x	
FAA			x		
CISPR 25					x

Specification

Model	LI-125	LI-150	LI-325	LI-400	LI-550
Frequency	150 kHz - 30 MHz	150 kHz - 30 MHz	10 kHz - 400 MHz	10 kHz - 10 MHz	100 kHz - 108 MHz
Lines	2	2	2	2	2
Max (current)	25 A	50 A	25 A	25 A	50 A
Max (voltage)	270 VAC / 380 VDC	270 VAC / 380 VDC	270 VAC / 380 VDC	270 VAC / 380 VDC	270 VAC / 380 VDC
Power Frequency	60 / 50 Hz	60 / 50 Hz	DC- 400 Hz	DC-400 Hz	50 / 60 Hz
Inductor	50 μ H Air Core	50 μ H Air Core	5 μ H Air Core	50 μ H Air Core	5 μ H Air Core
RF connector	50 Ω N (f)	50 Ω N (f)	50 Ω N (f)	50 Ω N (f)	50 Ω N (f)
I/O Connectors	Superior \odot Plug	Superior \odot Plug	Superior \odot Plug	Superior \odot Plug	Superior \odot Plug
Weight	25 lbs / 11.3 kg	14 lbs / 6.3 kg	5 lbs / 2.2 kg	14 lbs / 6.3 kg	14 lbs. / 6.3 kg
Size	13 x 7 x 7 inches 33 x 17.7 x 17.7 cm	15 x 10 x 10 inches 38 x 25.4 x 25.4 cm	13 x 7.5 x 8 inches 33 x 19 x 20 cm	13 x 7 x 7 inches 33 x 17.7 x 17.7 cm	13 x 7 x 7 inches 33 x 17.7 x 17.7 cm

Typical Impedance



Specifications are subject to change without notice.
All values are typical unless specified