

## Features

- Single line design for flexibility**
- Coils matched to application**
- RF Shielding to minimize external interference**
- Individually Calibrated**
- Two 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 (LI-125 & LI-150)
- Individual calibration data per ANSI 63.4
- Manual & certification of calibration

### Application Table

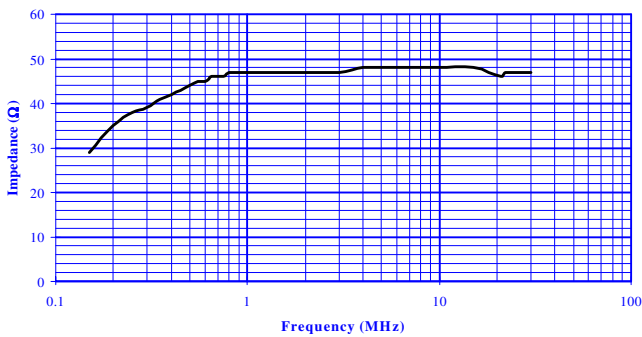
Model	LI-125	LI-150	LI-200	LI-300	LI-400
FCC	x	x	x		
CISPR	x	x	x		
EN55011 / 55022	x	x	x		
VCCI	x	x	x		
AUSTEL	x	x	x		
FAA -RTCA DO-160				x	
MIL-STD 462					x

# Specification

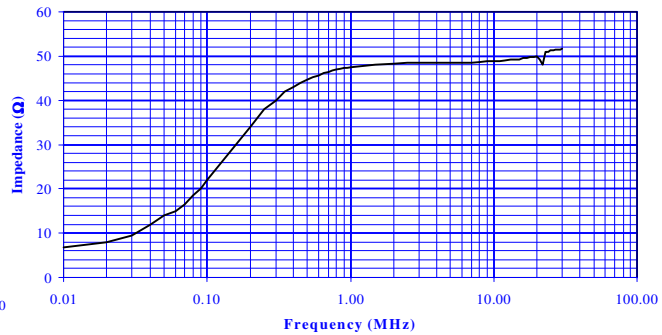
Model	LI-125	LI-150	LI-200	LI-300	LI-400
Frequency range	150 kHz - 30 MHz	150 kHz - 30 MHz	10 kHz - 30 MHz	150 kHz - 30 MHz	10 kHz - 10 MHz
Lines + Ground	2	2	2	2	2
Max. Current	25 Amps	50 Amps	20 Amps	30 Amps	30 Amps
Max. Voltage	270 V AC / 300 VDC	270 V AC / 300 VDC	270 V AC / 300 VDC	270 V AC / 300 VDC	270 V AC / 300 VDC
Inductance	50 $\mu$ H	50 $\mu$ H	50 $\mu$ H / 250 $\mu$ H	5 $\mu$ H	50 $\mu$ H
Inductor type	Air core	Air core	Air core	Air core	Air core
Output Impedance	50 $\Omega$	50 $\Omega$	50 $\Omega$	50 $\Omega$	50 $\Omega$
RF Output Connector	N female	N female	N female	N female	N female
Power source frequency	DC - 60 Hz	DC - 60 Hz	DC - 60 Hz	DC - 400 Hz	DC - 400 Hz
Power in connector	Superior $\oplus$ plug	Superior $\oplus$ plug	Binding posts	Binding posts	Binding posts
Power out connector	Superior $\oplus$ plug	Superior $\oplus$ plug	Binding posts	Binding posts	Binding posts
Weight	14 lbs / 6.8 kg	18 lbs / 8.1 kg	22 lbs / 10 kg	10 lbs / 4.5 kg	14 lb / 6.8 kg
Size	14 x 7 x 7 inches 35.5 x 17.8 x 17.8 cm	15 x 10 x 10 inches 38 x 25.4 x 25.4 cm	14 x 7 x 7 inches 35.5 x 17.8 x 17.8 cm	11 x 6 x 6 inches 28 x 15.2 x 15.2 cm	14 x 7 x 7 inches 35.5 x 17.8 x 17.8 cm

## Typical Impedance

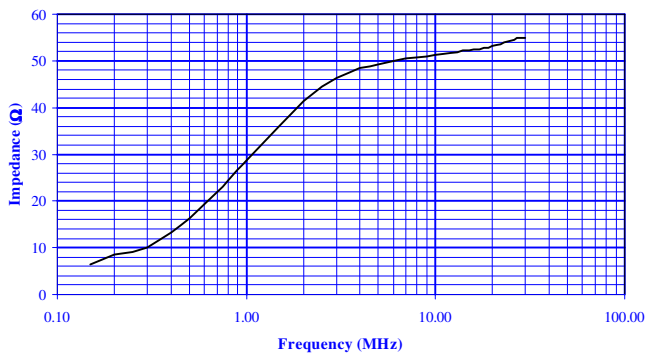
LI-125/LI-150



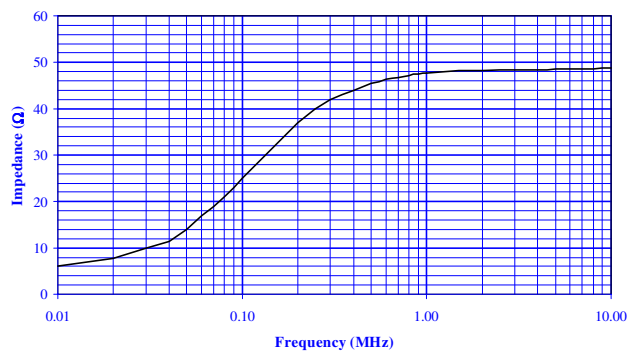
LI-200



LI-300



LI-400



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