



Single-line LISNs

LI-125,150,325,400,550

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 |