**Features**

Frequency range of 150 kHz to 30 MHz

Fully compliant with CISPR 16-1-2 / ANSI C63.4

“Air-core” inductors to prevent saturation

Individual Calibration Included

Three-Year Warranty

**Description**

The LI-125C Line Impedance Stabilization Network (LISN) provides the necessary measurement platform for performing power line conducted emissions compliance testing as required by most worldwide standards for commercial products. The LI-125C is compliant with both CISPR 16-1-2 and ANSI C63.4.

The LISN provides defined stable impedance and isolates the EUT from power source influences, thereby providing accurate and repeatable results.

The LI-125C includes one pair of, separately housed, single-conductor networks, to be installed in series with each current-carrying conductor in a single-phase, dual-phase or DC power system. A second LI-125C pair can be used to accommodate 3-phase power systems (Wye or Delta configurations).

The LI-125C is equipped with Superior Electric SUPERCON® shrouded sockets at the mains (power input) and EUT (power output) ports. The matching color-coded plugs for connection to the mains and EUT wiring are included.

This LISN uses air-core inductors to prevent saturation and permeability variation. The mounting plate of the LI-125C is left unpainted in order to facilitate connection to earth ground in its installation, which is essential due to high leakage current.

**Transient Protection**

Use of a Transient Limiter for impedance matching, reduction of out-of-band emissions and transient protection for your measurement instrument is highly recommended and available from Com-Power.

**Calibration**

All Com-Power LISNs are individually calibrated in compliance with the relevant requirements of CISPR 16-1-2 and ANSI C63.4. Impedance, Phase, Isolation, and Insertion Loss data is supplied with each unit, along with the calibration certificate.

**Typical Connection Diagrams**

**Single Phase connection with one set of LISN**

**Three Phase connection with two sets of LISNs**
## Line Impedance Stabilization Network (LISN)

**Product Name**: Line Impedance Stabilization Network (LISN)

**Specification**: CISPR 16-1-2 / ANSI C63.4

**Application**: Power line conducted emissions tests

**Frequency Range**: 150 kHz to 30 MHz

**RF Connector**: 50Ω N-type (female)

**Current Rating**: 25 Amperes (AC), 17 Amperes (DC)

**Voltage Rating**: 270 VAC (Line to Ground) 50-60 Hz, 380 VDC

**Inductors**: 50 µH (air-core)

**Mains & EUT Connections**: Superior Electric SUPERCON® shrouded sockets

**Dimensions (each network)**: 13 x 7 x 7 inches / 33 x 17.7 x 17.7 cm

**Weight (each network)**: 6 lbs. / 2.7 kg

**Insertion Loss**: < 0.5 dB (150 kHz to 30 MHz)

**Isolation**: > 40 dB (150 kHz to 30 MHz)

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All specifications are subject to change without notice.

All values are typical, unless specified.

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![Graph 1](image1.png)

- **LISN Model No. LI-125C**
- **CISPR 16-1-2, Ed.1.2, Tbl 4 (50uH) Impedance Limits (±20%)**
- **ANSI C63.4-2009, Tbl B.2 (50uH) Impedance Limits (±20%)**
- **ANSI C63.4-2003, Fig.1 (50uH) Impedance Limits (±20%)**

![Graph 2](image2.png)

- **LISN Model No. LI-125C**
- **CISPR 16-1-2, Ed.1.2, Tbl 4 (50uH) Phase Limits (±11.5°)**