

EM-7820 | Line Impedance Stabilization Network



Description

The Electro-Metrics EM-7820 Line Impedance Stabilization Network (LISN) is a two-channel low pass filter network designed to isolate an electrically operated device from an external power source. The EM-7820 is used when high frequency conducted measurements are made in accordance with ANSI C63.4 and certain FCC, CISPR and VDE standards.

Applications

When measuring conducted radio interference voltages from line to ground, it is essential to stabilize the line impedance so that repeatable tests can be made at more than one facility.

The Electro-Metrics series LISN's are designed to meet FCC, ANSI and CISPR standards for conducted emissions measurements. Each LISN is designed to present relatively constant impedance to high frequency signals, which may be present on the power lines, between the device under test and the power source.

Specifications

Electrical

Frequency Range: 10 kHz - 30 MHz

VDE 0876 Specified Curve: $\pm 20\%$

Power Line Frequency: DC to 400 Hz
25 A Maximum Current
2 Lines

Maximum AC Input:

Line-to-Line: 440 VAC

Line-to-Ground: 220 VAC

Inductance: 50 μ H / 250 μ H

Impedance: 50 Ohms

Connector(s):

Monitor Ports: Type BNC, female

Power Input/Output: Superior Plug/Socket Receptacles

Mechanical

Length: 41.15 cm (16.2")

Width: 27.69 cm (10.9")

Height: 15.57 cm (6.13")

Weight: 9.3 kg (20.5 lbs.)

Ref: 040510

When the associated measuring equipment is a spectrum analyzer or EMI meter which uses an electronically controlled solid state attenuator, it is recommended that a high-pass filter (Electro-Metrics EM-7600 Transient Limiter) be used. This precaution prevents possible damage to the attenuator's FET semiconductors caused by transients.

Specifications subject to change without notice.
Unless otherwise specified, product is manufactured in
Johnstown, NY USA.

