

5 μ H LISN for Tektronix EMC pre-compliance

EMI-LISN5UH (TEKBOX TBOH01 offered by Tektronix)



The EMI-LISN5UH is the TEKBOX TBOH01 5 μ H LISN. This device is required to set up conducted noise measurements of DC-powered devices and is designed to be used for EMC pre-compliance testing in the frequency range of 150 kHz to 110 MHz (according to the CISPR-25 standard, ISO 7637-2, ISO11452-2/4/5 and with limitations DO-160/ED-14G). The LISN is inserted into the supply line of the DUT (Device Under Test). Conducted noise that is present at the supply terminals of the DUT can be measured at the BNC connector using a spectrum analyzer or a measurement receiver. The source (supply) terminal and the DUT terminal are decoupled by a 5 μ H inductor.

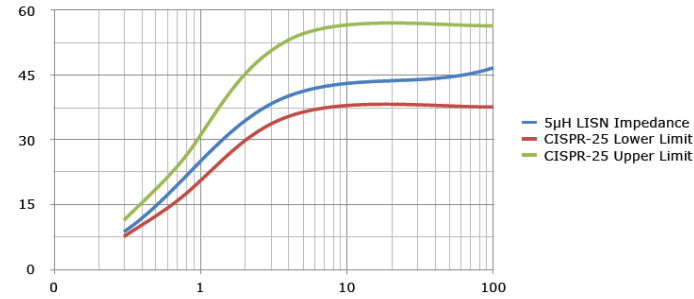
Key features

- Frequency Range: 100 kHz to 110 MHz
- DC resistance: 40 m Ω
- Maximum current: 10 A
- Nominal operating voltage range: 0 to 60 V DC
- Built in surge protection
- Terminals suitable to clamp external source capacitors

Specifications

5 μ H LISN

Frequency range	100 kHz –110 MHz
DC resistance	40 m Ω
Maximum current	10 A
Nominal operating voltage range	10 to 60 V DC (1 GHz when insertion loss measured between DUT terminals and BNC connector; source terminals shorted)
Absolute maximum rating	200 V ¹
Impedance	



¹ The operating voltage range is limited to 60V DC for safety reasons. Though the component rating of the LISN is $\geq 200V$, the positive supply voltage could accidentally be connected to the negative terminal of the LISN and thereby to the LISN housing. Under this circumstance, a DC voltage > 60V could cause a lethal electric shock when touching the housing.

Ordering information

EMI-LISN5UH 5 μ H LISN

Item	Description
EMI-LISN5UH	5 μ H DC Line Impedance Stabilization Network (LISN)

Service

All service provided by TEKBOX Digital Solutions. Contact <https://www.tekbox.net/> for product information and service.

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