

FCC-LISN-5 Series Line Impedance Stabilization Networks

Datasheet



Introduction

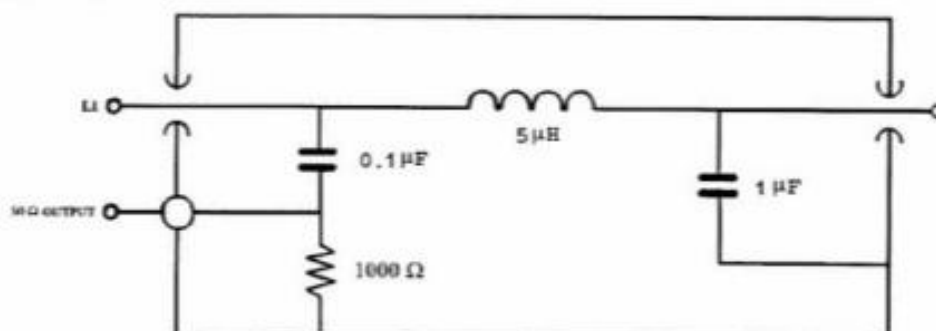
FCC-LISN-5-(***)-01-DO-160F Series products are designed to test whether the electrical devices can meet the requirement of Standard RTCA DO-160. DO-160 Rev F has its exclusive requirement for voltage of power supply. Its power range can reach from DC to 800Hz, 230V. LISN must test avionic's equipment in this range of rated voltage and frequency.

Technical Parameters

Frequency Range: 10 kHz — 400 MHz
Power supply line: uniconductor
common-mode impedance: See curved line
rated current: 50A, 100A, 200A
Max.rated voltage: DC-1200 V
60 Hz-800 V
400 Hz-400 V
800 Hz-230 V
power supply connector : Advanced plug and socket
RF output connector: TMyulti- safety connecting socket

Model No.	Rated Current	Enclosure dimension
FCC-LISN-5-50-01-DO-160F	50A	9"×6" ×5"
FCC-LISN-5-100-01-DO-160F	100A	15"×9" ×7"
FCC-LISN-5-200-02-DO-160F	100A	15"×9" ×7"

Schematic



According to user's requirement, feed through capacitors of 10 ufd are available on request.

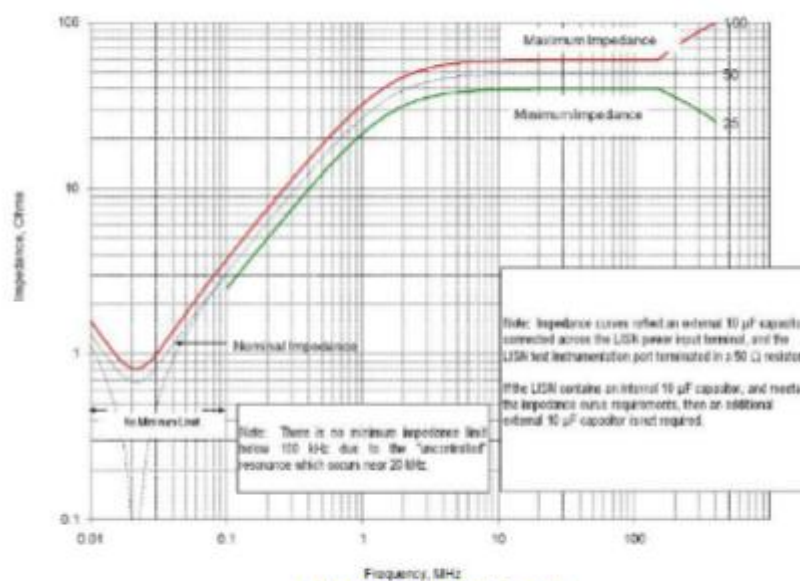


Diagram of relationship between impedance with limiting line and frequency

Note:

1. There is no minimum impedance limits under frequency of 100 kHz because of uncontrolled resonance in the vicinity of 20 kHz.
2. Impedance curved lines reflect the case of external 10 μF capacitor passing through LISN power supply input terminal, and the terminal of testing instrument is a resistor of 50 Ω . If the 10 μF capacitor are built in LISN and conform to the requirement of impedance curved lines, extra external 10 μF capacitor will not be needed.