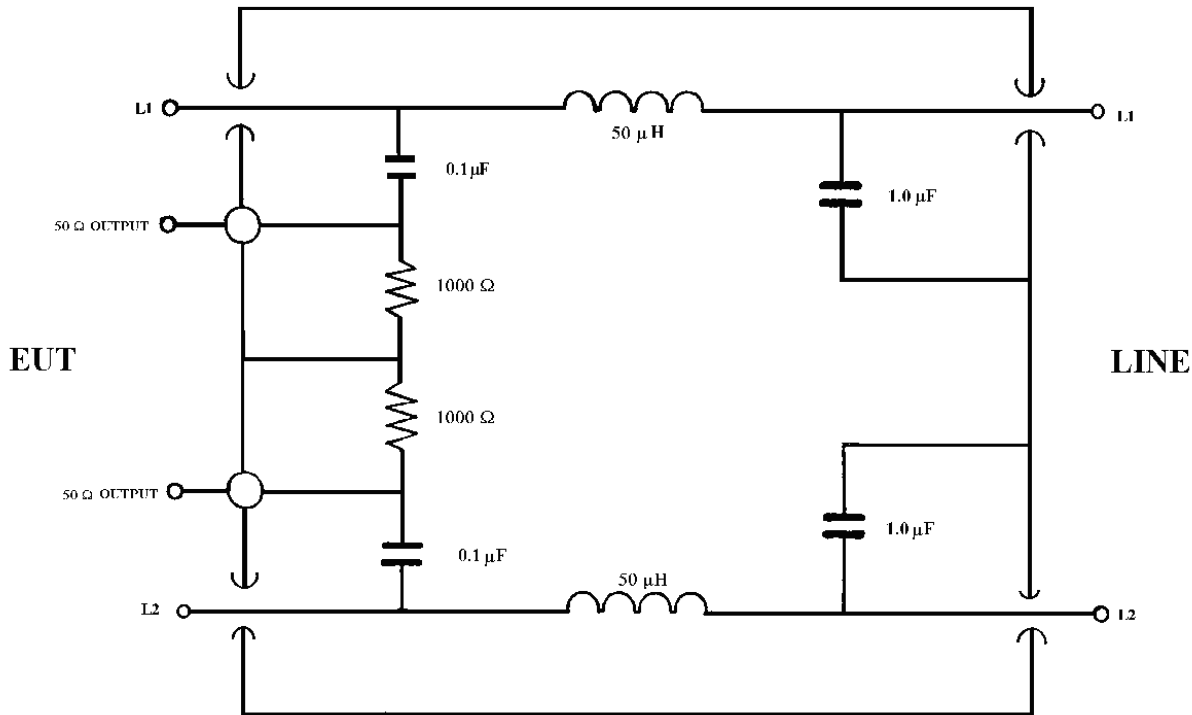


A wide range of EMC test specifications including CISPR 22, FCC, ANSI C63.4 and many others use a standard 50Ω, 50uH and its primary variant the 50Ω, 50uH +5Ω for conducted emissions testing. CISPR 16-1-2 most precisely defines the performance requirements of these devices.

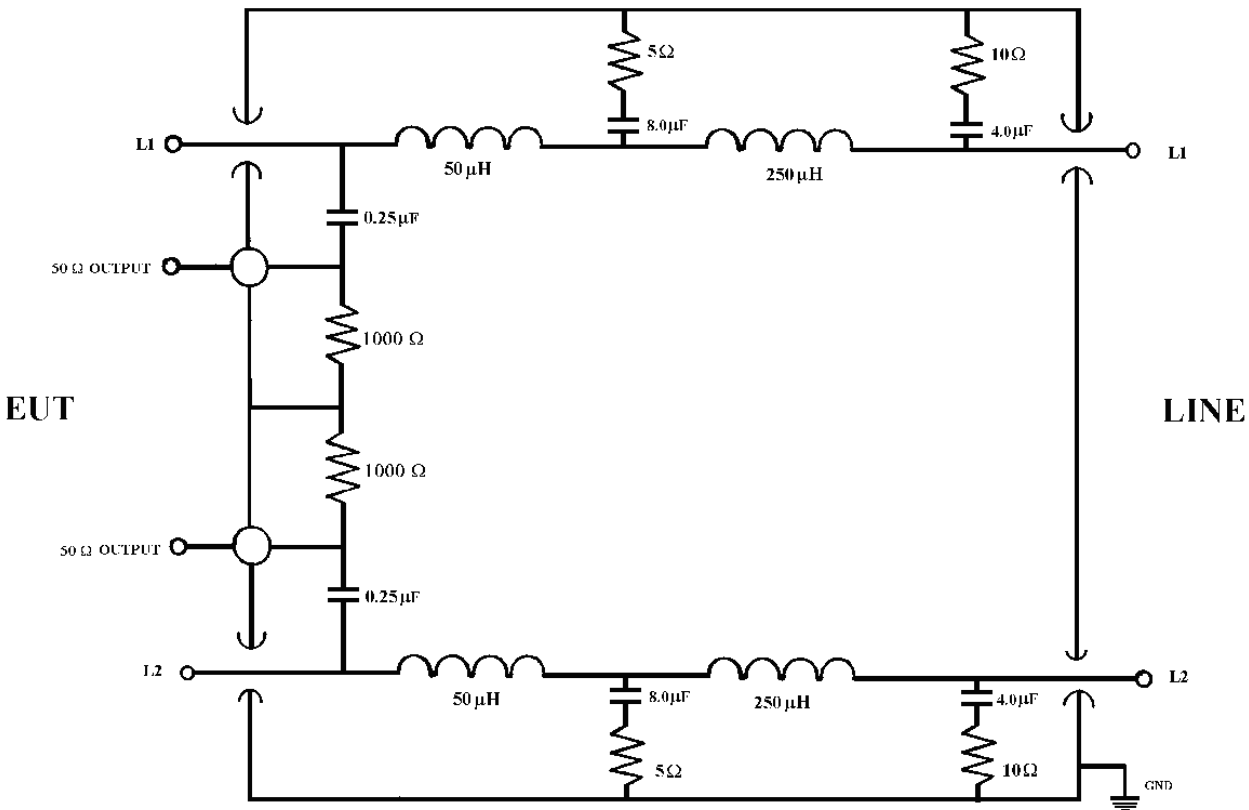


Informative Schematic

Model Number	Frequency (MHz)	Network Inductance	Maximum Current	Voltage Options	Power Freq.	Number of Lines
FCC-LISN-50-25-(X)-(XX)	.15 – 30	50uH	25A	240V / 480V	DC-60Hz	1, 2, 4
FCC-LISN-50-50-(X)-(XX)	.15 – 30	50uH	50A	240V / 480V	DC-60Hz	1, 2, 4
FCC-LISN-50-100-(X)-(XX)	.15 – 30	50uH	100A	240V / 480V	DC-60Hz	1, 2, 4
FCC-LISN-50-100-(X)-(XX)	.15 – 30	50uH	200A	240V / 480V	DC-60Hz	1, 2, 4
FCC-LISN-50-400-(X)-(XX)	.15 – 30	50uH	400A	240V / 480V	DC-60Hz	1
FCC-LISN-50-50-25-(X)-(XX)	.15 – 30	50uH	25A	240V / 480V	DC-60Hz	1, 2, 4
FCC-LISN-50-50-(X)-(XX)	.15 – 30	50uH	50A	240V / 480V	DC-60Hz	1, 2, 4
FCC-LISN-50-100-(X)-(XX)	.15 – 30	50uH	100A	240V / 480V	DC-60Hz	1, 2, 4
FCC-LISN-50-200-(X)-(XX)	.15 – 30	50uH	200A	240V / 480V	DC-60Hz	1, 2, 4

For connector options, please see table 3, (xx) defines EUT power connections, (x) defines number of lines All the models listed above meet the performance requirements for the 50Ω, 50uH LISN circuit defined in CISPR 16-1-2, 2006, including the common mode impedance, phase and decoupling isolation.

An alternative LISN circuit, 50Ω, 50uH +5Ω, is often used by test engineers to perform conducted emission testing defined in CISPR test specifications. This LISN originated with VDE conducted emissions testing. It is also the LISN required for CISPR 15 testing of luminaries. It includes additional inductors and capacitors for filtering and has an operating frequency of 9kHz – 30MHz.



Informative schematic

Model Number	Frequency (MHz)	Network Inductance	Maximum Current	Voltage Options	Power Freq.	Number of Lines
FCC-LISN-50/250-16-(X)-(XX)	.009 - 30	50/250 uH	16A	240V 480V	DC-60Hz	1, 2, 4
FCC-LISN-50/250-25-(X)-(XX)	.009 - 30	50/250 uH	25A	240V 480V	DC-60Hz	1, 2, 4
FCC-LISN-50/250-50-(X)-(XX)	.009 - 30	50/250 uH	50A	240V/ 480V	DC-60Hz	1, 2, 4
FCC-LISN-50/250-100-(X)-(XX)	.009 - 30	50/250 uH	100A	240V 480V	DC-60Hz	1, 2, 4
FCC-LISN-50/250-25-(X)-(XX)	.009 - 30	50/250 uH	25A	240V 480V	DC-60Hz	1, 2, 4
FCC-LISN-50/250-50-(X)-(XX)	.009 - 30	50/250 uH	50A	240V 480V	DC-60Hz	1, 2, 4

For connector options, please see table 3, (xx) defines EUT power connections, (x) defines the number of lines. All the models listed above meet the performance requirements defined in CISPR 16-1-2, 2006 for the 50Ω, 50uH +5Ω LISN circuit, including common mode impedance, phase, and decoupling isolation

Table 3

Connector Codes

01	Multi-Contact Safety Socket
02	Superior Plug and Jack Safety Socket
03	IEC 320, 10A / 16A Power
04	IEC 320, 16A / 20A Power
05	(Reserved for future use)
06	(Reserved for future use)
07	CEE 7/7 16A Schuko German Power
08	Nema 5-15, 15A US Power
09	Nema 5-20, 20A US Power
10	Nema 6-20, 20A US Power
11	750 mcm brass threaded bolt



Fischer Custom Communications,

20603 Earl St., Torrance, CA 90503 · Phone: 310-303-3300 Fax 310-371-6268 · email: sales@fischercc.com