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MODEL NUMBER:
ISN30M

Impedance Stabilization Network with Coupling/Decoupling Network for Cat 6

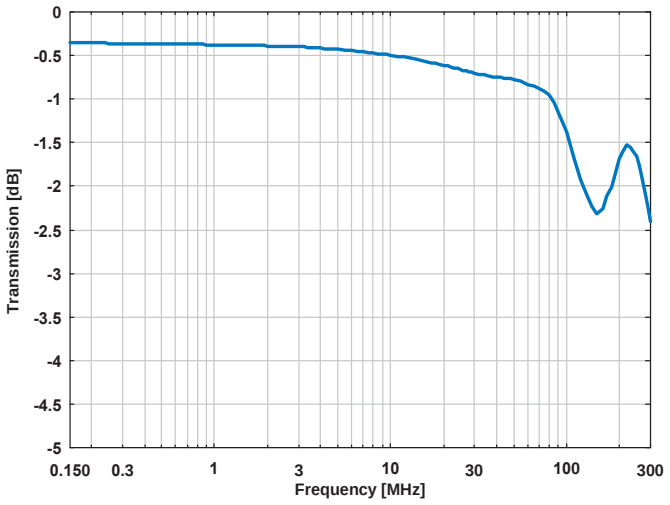
The ISN30M allows to perform common mode disturbance voltage measurements on unshieldedor communication ports with 2, 4, 6 or 8 wires according to CISPR 22 and CISPR 32. Also, conducted immunity measurements to CISPR 24 and IEC 61000-4-6

SPECIFICATIONS:

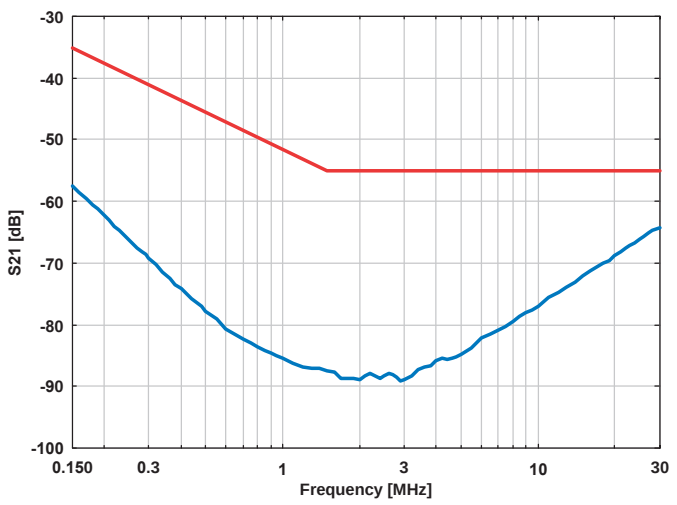
Frequency range (ISN):	150 kHz – 30 MHz
Frequency range (CDN):	150 kHz – 80 MHz
Type:	T8, T4, T2-ISN, CDN (ISN30M-ADARequired)
Insertion loss: differential mode AE - EuT port:	typ.: < 1 dB 100 kHz to 30 MHz typ.: < 2.5 dB 30 MHz to 250 MHz (Fig.3)
Decoupling AE-EuT:	>55 dB (Fig.4)
Longitudinal Conversion Loss (LCL):	75 dB @ 150 kHz 59 dB @ 30 MHz (Fig.5)
Voltage division factor for asymmetrical voltage:	10 dB ± 1 dB (Fig.6)
Impedance (asymm.):	≤30 MHz: 150 Ω ± 20 Ω (Fig.7) >30 MHz: 150 Ω + 60 Ω/ -45 Ω≤
Common mode phase angle:	0° ± 20° (Fig.8)
Connectors AE, EuT:	RJ-45 (8P8C)
Current max:	800 mA (pair)
Max. voltage:	63 VAC / 100 VDC
Measurement port:	BNC 50 Ω female
Crosstalk PSELFEXT:	typ.: > 66 dB 150 kHz – 1 MHz typ.: > 46 dB at 10 MHz typ.: > 38 dB at 30 MHz
Weight:	465 g (1 lbs)
Outer dimensions W x H x D:	125 mm x 62 mm x 105 mm (5 x 2.4 x 4 inches)
CISPR circuit diagram:	CISPR 22, Appendix D, Fig. D.3

TYPICAL MEASURED CURVES OF THE ISN30M

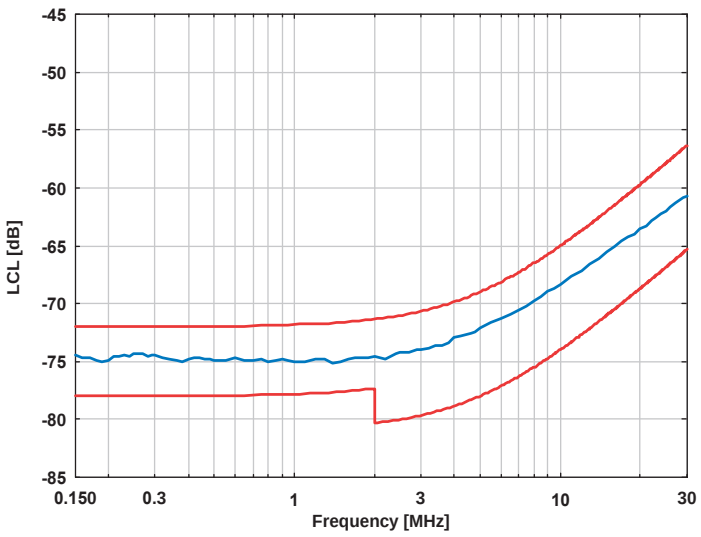
Transmission Differential Mode Signal AE-EuT



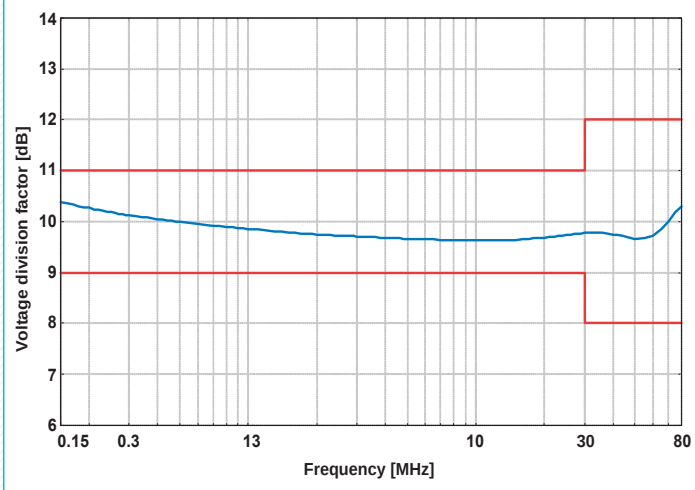
Decoupling AE - EuT



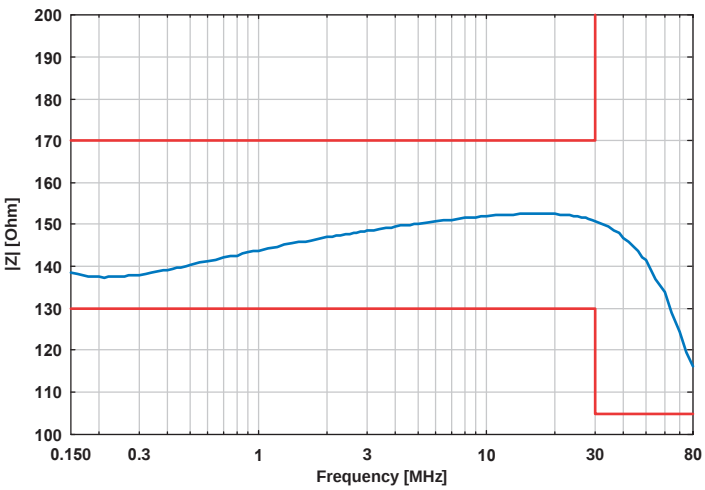
Longitudinal Conversion Loss (LCL)



Transmission EuT to Measurement Port



Common Mode Impedance (Magnitude) at EuT-Terminals



Common Mode Impedance (Phase) at EuT-Terminals