



The Model 3810/2 series of Line Impedance Stabilization Networks have been certified by the Canadian Standards Association to be in compliance with CAN/CSA-22.2 No 1010.1-92 (Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use). This certification states that the Model 3810/2 series complies with the applicable requirements of the NFPA National Electric Code.



Model 3810/2 LISN

Key Features

- One Piece, Multi-Line Design for Convenience
- Wide Frequency for Broad Measurement
- Coils Matched to Application
- Insulated Plugs for Safer Power Connections
- RF Shielding to Minimize Intrusion
- Individually Calibrated



EMCO Line Impedance Stabilization Networks (LISNs) and Power Line Impedance Stabilization Networks (PLISNs)

are multi-line low pass filter networks used for conducted emissions measurement. LISNs and PLISNs isolate an electrically powered EUT from the external power source, stabilize line impedance (for repeatable measurements), and provide a 50-ohm RF connection to measure EMI voltage generated by the EUT. When line currents drawn by the EUT are too great for a LISN, EMCO's Model 3701 Line Probe can be used for EMI voltage measurements.

STANDARD CONFIGURATION

- LISN assembly
- 50 Ω external load (three each on Model 3960/4)
- AC line cord adapters (Model 3925/2 and 3960/4 only)
- Superior® pin plug connectors (6) excluding Models 3810, & 3816
- Individually calibrated per ANSI C63.4. Actual factors and a signed Certificate of Calibration Conformance included in manual.



Operational Features

MODEL	MANUALLY SWITCHED EARTH LINE CHOKE	EARTH LINE CHOKE	ARTIFICIAL HAND	HIGH PASS FILTER	MANUALLY SWITCHED TEST PORTS	REMOTE SWITCHED TEST PORTS
3810/2	Yes	Yes	Yes	No	Yes	No
3816/2	Yes	Yes	Yes	Yes	Yes	Yes

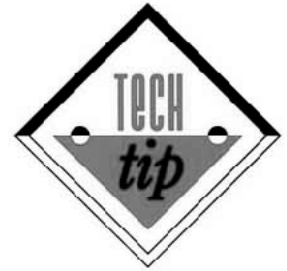


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Physical Specifications

MODEL	WIDTH	DEPTH	HEIGHT	WEIGHT
3625/2♦	27.9 cm 11.0 in	27.9 cm 11.0 in	16.5 cm 6.5 in	5.4 kg 12.0 lb
3725/2M♦	22.2 cm 8.7 in	38.1 cm 15.0 in	15.2 cm 6.0 in	4.9 kg 10.7 lb
3810/2	22.2 cm 8.7 in	38.1 cm 15.0 in	15.2 cm 6.0 in	4.9 kg 10.7 lb
3816/2	22.2 cm 8.7 in	38.1 cm 15.0 in	15.2 cm 6.0 in	4.9 kg 10.7 lb
3825/2	27.9 cm 11.0 in	38.1 cm 15.0 in	21.2 cm 8.3 in	10.4 kg 23.0 lb
3850/2♦	51.4 cm 20.2 in	57.1 cm 22.5 in	34.9 cm 13.7 in	20.4 kg 45.0 lb
3925/2♦	51.4 cm 20.2 in	47.0 cm 18.5 in	23.5 cm 9.2 in	27.3 kg 60.0 lb
3701	N/A	21.6 cm 8.5 in	N/A	164.4 g 6.0 oz



LISN's can be used as a coupling device for power line susceptibility testing above 450 kHz. To do this, connect an RF generator to the RF output port and inject the desired voltage (1Vrms for IEC 1000-4-6) onto the power line. Your EUT should be connected to the LISN as it normally is for emissions testing. Monitor your EUT for indications of abnormal operation indicating susceptibility failure. While this set up isn't appropriate for compliance testing, it will help identify a severe problem.

Electrical Specifications

MODEL	POWER OUT CONNECTOR	POWER IN CONNECTOR	LINES PLUS GROUND	FREQUENCY RANGE	POWER SOURCE FREQUENCY	MAXIMUM CURRENT	MAXIMUM VOLTAGE	NETWORK INDUCTANCE IMPEDANCE
3625/2♦	Superior® Plug	Superior® Plug	2	100 kHz – 65 MHz	DC – 400 Hz	25 A	400 VAC Line – Line 220 VAC Line to Ground	5 µH, 50 Ω
3725/2M♦	Insulated Binding Posts	Binding Posts	2	10 kHz – 100 MHz	DC – 400 Hz	25 A	220 VAC Line to Ground	50 µH, 50 Ω
3810/2	NEMA SCHUKO British	IEC Power inlet with customer specified cordset	2 2 2	9 kHz – 30 MHz 9 kHz – 30 MHz 9 kHz – 30 MHz	60 Hz 50 Hz 50 Hz	10 A 10 A 10 A	125 VAC Line to Ground 250 VAC Line to Ground 250 VAC Line to Ground	50 µH/250 µH, 50 Ω 50 µH/250 µH, 50 Ω 50 µH/250 µH, 50 Ω
3816/2	NEMA SCHUKO British	Integral cord with customer specified cordset	2 2 2	9 kHz – 30 MHz 9 kHz – 30 MHz 9 kHz – 30 MHz	60 Hz 50 Hz 50 Hz	15 A 16 A 16 A	125 VAC Line to Ground 250 VAC Line to Ground 250 VAC Line to Ground	50 µH/250 µH, 50 Ω 50 µH/250 µH, 50 Ω 50 µH/250 µH, 50 Ω
3825/2	Superior® Plug	Superior® Plug	2	9 kHz – 100 MHz	DC – 60 Hz	25 A	400 VAC Line – Line 220 VAC Line to Ground	50/250 µH, 50 Ω
3850/2♦	Superior® Plug	Superior® Plug	2	9 kHz – 100 MHz	DC – 60 Hz	50 A	400 VAC Line – Line 220 VAC Line to Ground	50/250 µH, 50 Ω
3925/2♦	Type N female AC Adapter	Superior® Plug	2	5 kHz – 1000MHz	DC – 60 Hz	20 A	400 VAC Line – Line 220 VAC Line to Ground	50 Ω
3701	N/A	Clip Lead	N/A	10 kHz – 30 MHz			400 VAC Line – Line	N/A

♦ Specialty Item. Call EMCO for lead time and pricing.