

FEATURES:

- Suitable for 400 Hz supplies
- 100 dB insertion loss
- Compact size
- Current range from 6 Amps to 100 Amps



N182X Series Power Filters

THE N182x series filters are RFI/EMI reliable, high performance power filters for use in general purpose applications.

DESCRIPTION

The N182x filters offer a high protection rate against EMI and EMP. Filters of the same part number may be connected with parallel lines to give increased current capability without loss of attenuation.

The filter networks of this series are RF sealed in high quality electroplated steel cases. Solid and permanent earthing of the filter case is essential for safety reasons and to ensure optimum performance.

FEATURES

The N182x series filters can be used on 400 Hz supplies when the supply voltage is 110 V.

These filters provide 100 dB insertion loss from 150 KHz to 10 GHz at full load in both symmetric and asymmetric modes.

They are a compact size and are made from durable materials, which ensure reliable performance.

A current range from 6 Amps to 100 Amps is offered. The filters are available in both Single Phase + Neutral and Three Phase + Neutral.

APPLICATIONS

- Filtering mains supply cables to RF screened rooms where 100 dB attenuation is required.
- Filtering mains supply cables to computers and other types of equipment that contain solid state circuits requiring a high degree of protection against mains-borne interference. For this type of application, the filters are usually wall-mounted adjacent to the equipment.
- Fitted with transient suppressors, they give total protection against all normal mains-borne interference.
- For 400 Hz supplies, particularly

those required to meet stringent limits on wave form distortion and harmonic content

STANDARD CONFIGURATION

- Supplied with end housings
- Supplied with fixing kit

OPTIONS

- TS (transient suppressor)
- HVTS (high voltage transient suppressor)
- Other options available on request

Electrical Specifications

PART #	Current Max	# of Lines	Voltage drop on full load/line	DC resistance per line	Total series inductance/line	Total shunt capacitance/line	Case temp. rise on full load	Max. recommended case temp. on full load	Full load dissipation
N1820	6 amps	2	1 V	100 mΩ	1680 μH	1.5 μF	+10 °C	+70 °C	12 W
N1821	6 amps	4	1 V	100 mΩ	1680 μH	1.5 μF	+10 °C	+70 °C	24 W
N1822	32 amps	2	0.4 V	15 mΩ	177 μH	8.5 μF	+12 °C	+70 °C	100 W
N1823	32 amps	4	0.4 V	15 mΩ	177 μH	8.5 μF	+12 °C	+70 °C	200 W
N1824	63 amps	2	0.3 V	3 mΩ	25.5 μH	8.5 μF	+12 °C	+70 °C	60 W
N1825	63 amps	4	0.3 V	3 mΩ	25.5 μH	8.5 μF	+12 °C	+70 °C	120 W
N1826	100 amps	2	0.5 V	2 mΩ	37 μH	8.5 μF	+25 °C	+70 °C	120 W
N1827	100 amps	4	0.5 V	2 mΩ	37 μH	8.5 μF	+25 °C	+70 °C	240 W

Voltage Frequency Max-

2 Line Filters = 250 V- DC/50/60 Hz- 120 V-400 Hz

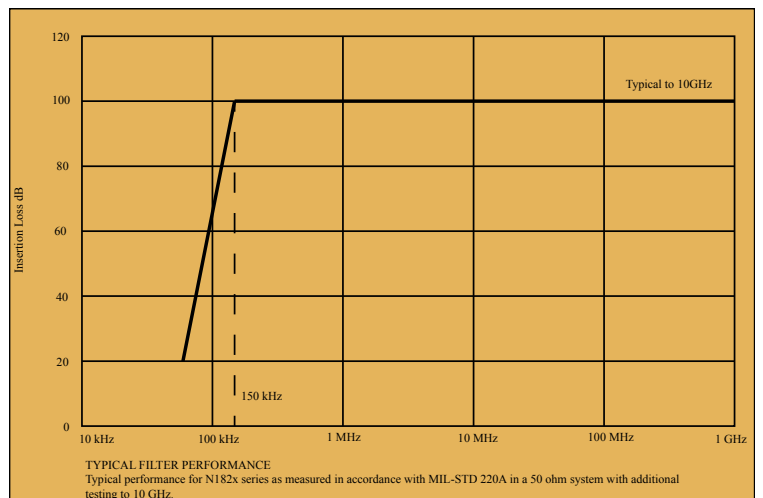
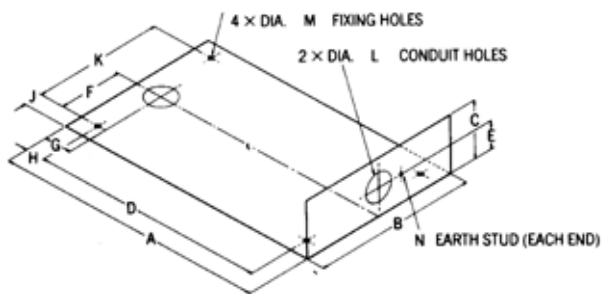
4 Line Filters = 440/250 V- DC/50/60 Hz- 220/120 V- 400 Hz

Add TS to the end of the part number for 250 V with transient suppressors

Add HVTS to the end of the part number for 400 V with transient suppressors

Physical Specifications

PART #	A	B	C	D	E	F	G	H	J	K	L	M	N	Weight (kg)
N1820	305	175	110	212	50	63.5	46.5	46.5	24	127	20	7	M6	5.9
N1821	305	345	110	212	50	108	46.6	46.5	64.5	216	20	9	M6	11.8
N1822	560	210	110	487	50	41.2	46	35	63.8	82.4	32	9	M6	12.7
N1823	560	415	110	487	50	143	46	35	64.5	286	32	13	M6	24.9
N1824	560	210	110	487	50	41.2	46	35	63.8	82.4	32	13	M6	12.7
N1825	560	415	110	487	50	143	46	35	64.5	286	32	13	M6	24.9
N1826	560	210	110	487	50	41.2	46	35	63.8	82.4	32	9	M6	17.7
N1827	560	415	110	487	50	143	46	35	64.5	286	50.8	13	M6	34



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