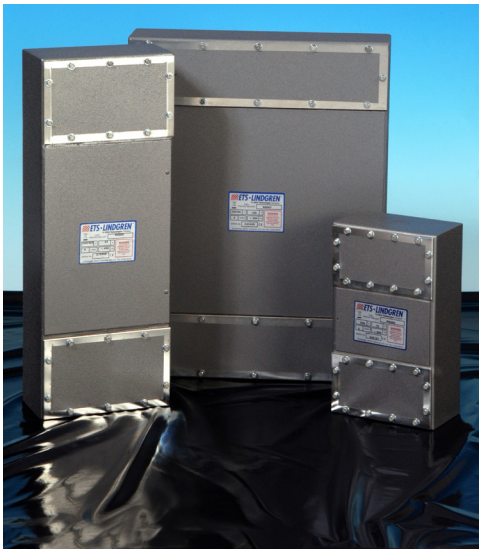
ETS·LINDGREN
An ESCO Technologies Company

Power Filters
N500X Series

FEATURES:

- 100 dB Insertion Loss from 40 kHz up to 40 GHz
- Suitable for 400 Hz Supplies
- Low Power Dissipation
- Compact, Rugged Construction
- Current Range 16 to 200 Amperes



N500X Series Power Filters

THE N500X POWER FILTERS are high performance EMI power filters for use in EMC, TEMPEST applications, and anywhere a high performance screened room or anechoic application filters with low power dissipation.

DESCRIPTION

The N500X generation from ETS-Lindgren includes a reduction in power dissipation versus current rating. The entire range is available with optionally fitted transient suppressors for surge and spike protection.

The filter networks are all RF sealed in high quality electro-tin plated steel cases. The load current should return through the filter to maintain maximum performance.

Solid and permanent earthing of the case is essential for safety reasons and to ensure optimum performance.

All ETS-Lindgren filters are ROHS Compliant and are CE marked for Compliance with the low voltage directive.

FEATURES

The N500X power filters afford insertion loss in excess of 100 dB from as low as 40 kHz and up to 40 GHz for both off load and on load conditions.

The N500X series of power filters are suitable for 400 Hz supplies at 110v when operational.

These power filters offer very low power dissipation and a case temperature rise of 20° c at full load.

The N500X series offer a durable, compact design, and are lighter in weight in comparison to filters with similar current ranges.

All N500X filters offers current ranges from 16 to 200 Amperes, in both Single Phase +N and Three Phase +N.

APPLICATIONS

- In high performance screened rooms and anechoic chambers the N500X series provides protection of both incoming and outgoing supplies in line with the shield performance.
- In TEMPEST applications, the N500X filters provide an extremely high degree of protection required to obtain maximum security.
- N500X filters are ideal for EMC applications such as computer suites.
- N500X filters can be used for general purpose high performance filtering.

STANDARD CONFIGURATION

- Supplied with end housings
- Dedicated neutral

OPTIONS

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

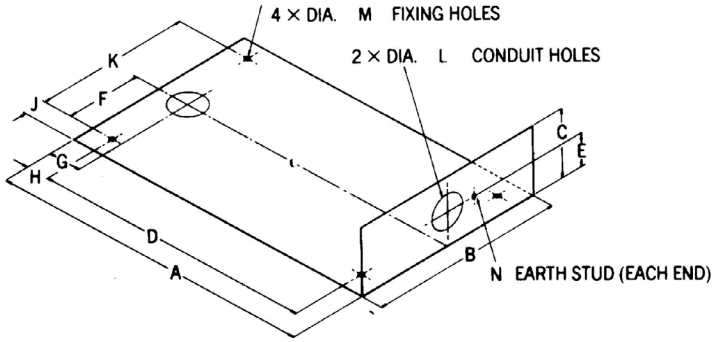
Electrical Specifications

PART #	Current Max (Amps)	Voltage Max (Volts)	Frequency (Hz)	Number of Lines	Volt Drop on Full Load in a 250V 50/60 Hz System Per Line (Max)	Full Load Dissipation (Watts)	Case Temperature Rise on Full Load	Max. Recommended Case Temperature on Full Load	Filters Fitted with 250V Transient Suppressors	Filters Fitted 400V Transient Suppressors
5000	16	250	DC/50/60/400	2	1.3	20	20	70	TS	HVTS
5001	16	440/250	DC/50/60/400	4	0.65	20	20	70	TS	HVTS
5002	32	250	DC/50/60/400	2	0.3	20	20	70	TS	HVTS
5003	32	440/250	DC/50/60/400	4	0.15	20	20	70	TS	HVTS
5004	63	250	DC/50/60/400	2	0.4	48	20	70	TS	HVTS
5005	63	440/250	DC/50/60/400	4	0.2	48	20	70	TS	HVTS
5006	100	250	DC/50/60/400	2	0.3	60	20	70	TS	HVTS
5007	100	440/250	DC/50/60/400	4	0.15	60	20	70	TS	HVTS
5008	200	250	DC/50/60/400	2	0.2	80	20	70	TS	HVTS
5009	200	440/250	DC/50/60/400	4	0.1	80	20	70	TS	HVTS

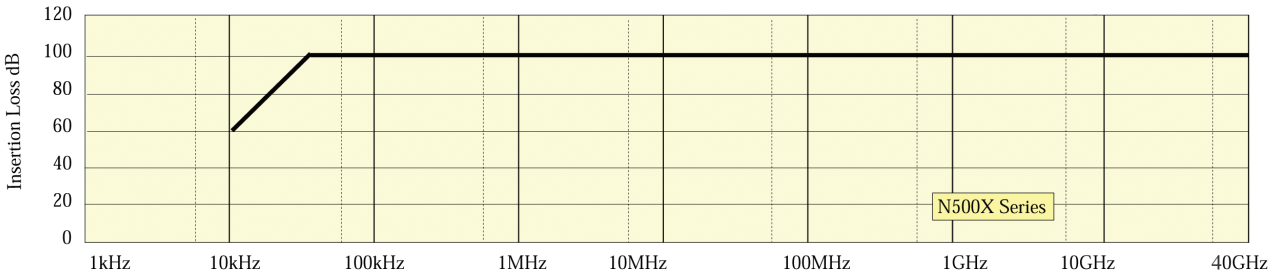
Physical Specifications

PART #	A	B	C	D	E	F	G	H	J	K	L	M	N	WEIGHT (kg)
5000	305	175	110	212	50	64	46	46	24	127	20	7	M6	4.3
5001	305	345	110	212	50	108	46	46	65	216	20	9	M6	7.6
5002	560	210	110	487	50	41	46	35	64	82	32	9	M6	14.4
5003	560	415	110	487	50	143	46	35	64	286	32	9	M6	27.2
5004	560	210	110	487	50	41	46	35	64	82	32	9	M6	15.4
5005	560	415	110	487	50	143	46	35	64	286	32	9	M6	28.4
5006	660	205	165	537	68	41	75	62	61	82	32	9	M8	22
5007	660	410	165	537	68	143	75	62	62	286	50	9	M8	32
5008	660	205	165	537	68	41	75	62	61	82	32	9	M8	26.8
5009	660	410	165	537	68	143	75	62	62	286	50	9	M8	44

N500X Series Physical Specification Diagram



N500X Series Performance Graph



TYPICAL FILTER PERFORMANCE
Typical asymmetric performance (on and off load) for N500X Series as measured in accordance with MIL-STD 220C with additional testing to 40GHz.