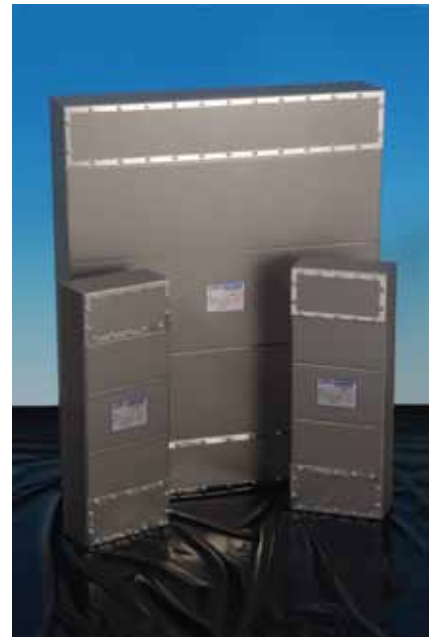


FEATURES:

- Highest performing commercially available power line filter
- Over 100 dB insertion loss from 10 kHz to 10 GHz
- Maximum protection in TEMPEST and EMP applications
- Fully accessible end chambers for connectivity
- RoHS compliant and CE marked for compliance with the low voltage directive



N255x Series Power Filters

THE N255x Filters are RFI/EMI high performance power filters used in TEMPEST and EMP applications.

DESCRIPTION

For greater than the maximum ratings, two or more of the same filter type may be connected in parallel without any significant performance loss. When fitted with transient suppressors, they give almost total protection against mains-borne transients.

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

These filters are not recommended for 400 Hz systems.

FEATURES

N255x filters have the distinction of being the highest performing commercially available power filters. They are fully tested for attenuation performance, voltage withstanding to 1 kV for thirty seconds, and insulation resistance.

N255x filters provide 100 dB insertion loss from 10 kHz to 10 GHz in both symmetric and asymmetric modes up to full load.

These filters also offer maximum protection in TEMPEST and EMP applications, along with fully accessible end chambers for termination of input and output cabling.

APPLICATIONS

- High performance screen rooms, providing attenuation of both the incoming and outgoing mains supply lines to match the shield performance
- Tempest applications, where the very highest degree of protection is required to obtain maximum security
- EMP protection systems

STANDARD CONFIGURATION

- The filter networks are RF sealed in high quality electroplated steel cases

- Available with a variety of cable entry options
- Fixing kit supplied as standard

OPTIONS

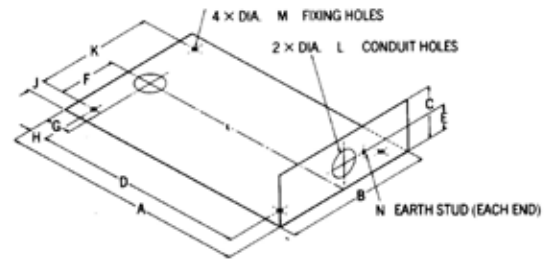
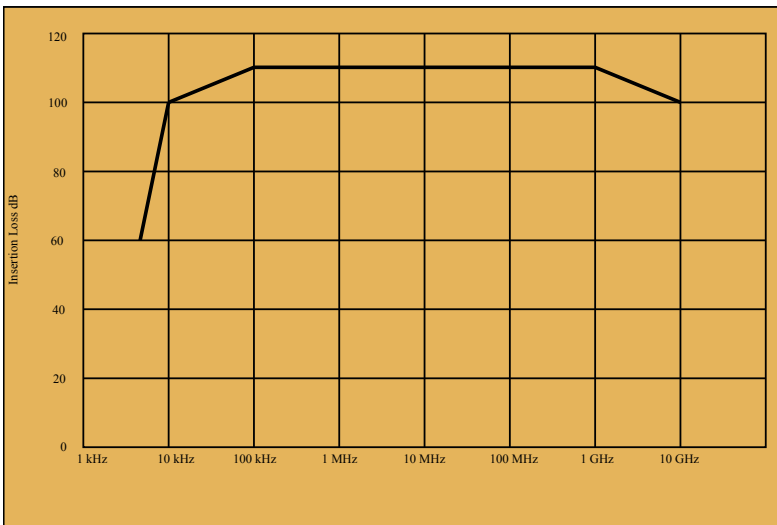
- TS (transient suppressor)
- HVTS (high voltage transient suppressor)
- Other options upon request

Electrical Specifications

PART #	CURRENT MAX	FREQUENCY	VOLTAGE MAX	# OF LINES	VOLTAGE DROP ON FULL LOAD IN 250V 50/60Hz SYSTEM/LINE	DC RESISTANCE PER LINE	SERIES INDUCTANCE PER LINE	SHUNT CAPACITANCE PER LINE	CASE TEMP RISE ON FULL LOAD	MAX. RECOM. CASE TEMP ON FULL LOAD	FULL LOAD DISSIPATION
N2550	6 A	50/60 Hz	250 V	2	1 V	50 Ω	2,500 uF	20 uF	+10 °C	+70 °C	20 W
N2551	6 A	50/60 Hz	440/250 V	4	1 V	50 Ω	2,500 uF	20 uF	+10 °C	+70 °C	40 W
N2552	16 A	50/60 Hz	250 V	2	1 V	12 Ω	2,700 uF	32 uF	+12 °C	+70 °C	40 W
N2553	16 A	50/60 Hz	440/250 V	4	1 V	12 Ω	2,700 uF	32 uF	+12 °C	+70 °C	80 W
N2554	32 A	50/60 Hz	250 V	2	0.6 V	24 Ω	600 uF	40 uF	+12 °C	+70 °C	90 W
N2555	32 A	50/60 Hz	440/250 V	4	0.6 V	24 Ω	600 uF	40 uF	+12 °C	+70 °C	180 W
N2556	63 A	50/60 Hz	250 V	2	1.5 V	15 Ω	960 uF	36 uF	+15 °C	+70 °C	100 W
N2557	63 A	50/60 Hz	440/250 V	4	1.5 V	15 Ω	960 uF	36 uF	+15 °C	+70 °C	200 W
N2558	100 A	50/60 Hz	250 V	2	0.9 V	5 Ω	360 uF	68 uF	+15 °C	+70 °C	400 W
N2559	100 A	50/60 Hz	440/250 V	4	0.9 V	5 Ω	360 uF	68 uF	+15 °C	+70 °C	400 W

Physical Specifications

PART #	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	J (mm)	K (mm)	L (mm)	M (mm)	N (mm)	WEIGHT (kg)
N2550	460	140	110	397	50	40	48	31.5	30	80	20	9	M6	6
N2551	460	280	110	397	50	110	45	31.5	30	220	20	11	M6	10.5
N2552	560	210	110	487	50	41.2	46	35	63.8	82.4	32	9	M6	13.5
N2553	560	415	110	487	50	143	46	35	64.5	286	32	13	M6	27
N2554	560	210	110	487	50	41.2	46	35	63.8	82.4	32	9	M6	13.5
N2555	560	415	110	487	50	143	46	35	64.5	286	32	13	M6	27
N2556	900	360	150	770	70	140	65	65	40	280	32	11	M6	54
N2557	900	720	150	770	70	320	65	65	40	640	50.8	13	M6	104
N2558	900	360	150	770	70	140	65	65	40	280	32	11	M6	51.5
N2559	900	720	150	770	70	320	65	65	40	640	50.8	13	M6	98



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