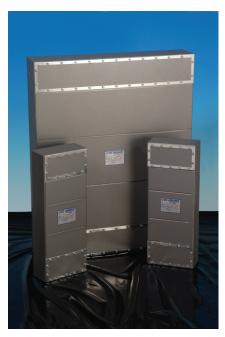


Power Filters N255X Series

FEATURES:

- Highest Performing Commercially Available Power Line Filter
- Over 100 dB Insertion Loss From 10 kHz To 40 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 High Performance

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.

Insertion Loss

N255X filters provide 100 dB insertion loss from 10 kHz to 40 GHz in both symmetric and asymmetric modes up to full load.

Maximum Protection

These filters also offer maximum protection in TEMPEST and EMP applications.

End Chamber Accessibility

For termination of input and output cabling, these filters have fully accessible end chambers.

RoHS Compliant, CE Marked

N255X filters are RoHS compliant and are also CE marked for compliance with the low voltage directive.

APPLICATIONS

- High Performance Screen Rooms; Providing Attenuation of Both the Incoming and Outgoing Mains Supply Lines to Match the Shield Performance
- TEMPEST Applications
- EMP Protection Systems

STANDARD CONFIGURATION

- Filter Networks are RF Sealed in High Quality Electroplated Steel Cases
- Available With a Variety of Cable Entry Options
- Fixing Kit

OPTIONS

- TS (Transient Suppressor)
- HVTS (High Voltage Transient Suppressor)
- Other Options Upon Request





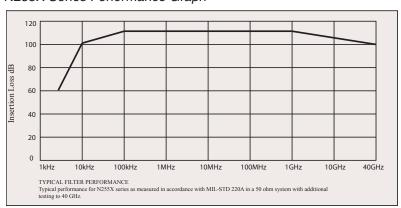
Electrical Specifications

PART #	Current Max (Amps)	Voltage Max (Volts)	Frequency (Hz)	Number of Lines in a 250V 50/60 Hz System Per Line (Max)	Volt Drop on Full Load (Volts)	DC Resistance Per Line (mΩ)	Series Inductance Per Line (uH)	Shunt Capacitance Per Line (uF)	Case Temp. Rise on Full Load (° C)	Max. Recommended Case Temp. on Full Load (° C)	Full Load Dissipation (W)
N2550	6	250	50/60	2	1.0	50	2,500	20	+10	+70	20
N2551	6	440/250	50/60	4	1.0	50	2,500	20	+10	+70	40
N2552	16	250	50/60	2	1.0	12	2,700	32	+12	+70	40
N2553	16	440/250	50/60	4	1.0	12	2,700	32	+12	+70	80
N2554	32	250	50/60	2	0.6	24	600	40	+12	+70	90
N2555	32	440/250	50/60	4	0.6	24	600	40	+12	+70	180
N2556	63	250	50/60	2	1.5	15	960	36	+15	+70	100
N2557	63	440/250	50/60	4	1.5	15	960	36	+15	+70	200
N2558	100	250	50/60	2	0.9	5	360	68	+15	+70	400
N2559	100	440/250	50/60	4	0.9	5	360	68	+15	+70	400

Physical Specifications

PART #	А	В	С	D	E	F	G	Н	J	K	L	M	N	WEIGHT
N2550	460 mm	140 mm	110 mm	397 mm	50 mm	40 mm	48 mm	30 mm	64 mm	80 mm	20 mm	9 mm	M6	6.0 kg
	(18.1 in)	(5.5 in)	(4.3 in)	(15.6 in)	(2.0 in)	(1.6 in)	(1.9 in)	(1.2 in)	(2.5 in)	(3.1 in)	(0.8 in)	(.4 in)		(13.2 lbs)
N2551	460 mm	280 mm	110 mm	397 mm	50 mm	110 mm	45 mm	30 mm	64 mm	220 mm	20 mm	11 mm	M6	10.5 kg
	(18.1 in)	(11.0 in)	(4.3 in)	(15.6 in)	(2.0 in)	(4.3 in)	(1.8 in)	(1.2 in)	(2.5 in)	(8.7 in)	(0.8 in)	(0.4 in)		(23.1 lbs)
N2552	560 mm	210 mm	110 mm	487 mm	50 mm	41.2 mm	46 mm	63.8 mm	64 mm	82.4 mm	32 mm	9 mm	M6	13.5 kg
	(22.0 in)	(8.4 in)	(4.3 in)	(19.2 in)	(2.0 in)	(1.6 in)	(1.8 in)	(2.5 in)	(2.5 in)	(3.2 in)	(1.3 in)	(0.4 in)		(29.8 lbs)
N2553	560 mm	415 mm	110 mm	487 mm	50 mm	143 mm	46 mm	64.5 mm	64 mm	286 mm	32 mm	13 mm	M6	27.0 kg
	(22.0 in)	(16.3 in)	(4.3 in)	(19.2 in)	(2.0 in)	(5.6 in)	(1.8 in)	(2.5 in)	(2.5 in)	(11.3 in)	(1.3 in)	(.5 in)		(59.5 lbs)
N2554	560 mm	210 mm	110 mm	487 mm	50 mm	41.2 mm	46 mm	63.8 mm	61 mm	82.4 mm	32 mm	9 mm	M6	13.5 kg
	(22.0 in)	(8.4 in)	(4.3 in)	(19.2 in)	(2.0 in)	(1.6 in)	(1.8 in)	(2.5 in)	(2.4 in)	(3.2 in)	(1.3 in)	(.4 in)		(29.8 lbs)
N2555	560 mm	415 mm	110 mm	487 mm	50 mm	143 mm	46 mm	64.5 mm	62 mm	286 mm	32 mm	13 mm	M6	27.0 kg
	(22.0 in)	(16.3 in)	(4.3 in)	(19.2 in)	(2.0 in)	(5.6 in)	(1.8 in)	(2.5 in)	(2.4 in)	(11.3 in)	(1.3 in)	(.5 in)		(59.5 lbs)
N2556	900 mm	360 mm	150 mm	770 mm	70 mm	140 mm	65 mm	40 mm	61 mm	280 mm	32 mm	11 mm	M6	54.0 kg
	(35.4 in)	(14.2 in)	(5.9 in)	(30.3 in)	(2.8 in)	(5.5 in)	(2.6 in)	(1.6 in)	(2.4 in)	(11.0 in)	(1.3 in)	(0.4 in)		(119.0 lbs)
N2557	900 mm	720 mm	150 mm	770 mm	70 mm	320 mm	65 mm	40 mm	62 mm	640 mm	50.8 mm	13 mm	M6	104.0 kg
	(35.4 in)	(28.3 in)	(5.9 in)	(30.3 in)	(2.8 in)	(12.6 in)	(2.6 in)	(1.6 in)	(2.4 in)	(25.2 in)	(2.0 in)	(.5 in)		(229.3 lbs)
N2558	900 mm	360 mm	150 mm	770 mm	70 mm	140 mm	65 mm	40 mm	62 mm	280 mm	32 mm	11 mm	M6	51.5 kg
	(35.4 in)	(14.2 in)	(5.9 in)	(30.3 in)	(2.8 in)	(5.5 in)	(2.6 in)	(1.6 in)	(2.4 in)	(11.0 in)	(1.3 in)	(0.4in)		(113.6 lbs)
N2559	900 mm	720 mm	150 mm	770 mm	70 mm	320 mm	65 mm	40 mm	62 mm	640 mm	50.8 mm	13 mm	M6	98.0 kg
	(35.4 in)	(28.3 in)	(5.9 in)	(30.3 in)	(2.8 in)	(12.6 in)	(2.6 in)	(1.6 in)	(2.4 in)	(25.2 in)	(2.0 in)	(.5 in)		(216.1 lbs)

N255X Series Performance Graph



N255X Physical Specification Diagram

