

FEATURES:

- High Current Capability
- 80 dB Insertion Loss From 100 kHz to 10 GHz
- Compact Design
- Excellent Strength to Weight Ratio
- > 3000 A Capability
- Fully Accessible End Chambers
- RoHS Compliant and CE Marked for Compliance with the Low Voltage Directive



N2510 Series Power Filters

THE N2510 Power Filter Series are RFI/EMI single line power filters used in high current and EMP applications.

DESCRIPTION

The N2510 series efficiently filter high electrical currents, protecting the connected equipment. In a typical installation (filter placement directly after the main incoming supply transformer), the low frequency performance is enhanced to more than 60 dB at 10 kHz.

FEATURES

The N2510 series have a standard high current capability. They are fully tested for attenuation performance, voltage withstanding to 1KV for thirty seconds, and insulation resistance.

Typical performance, as measured in a 50 Ohm system in accordance with MIL-STD-220A, is 80 dB insertion loss from 100 kHz to 10 GHz.

N2510 series filters can be moved

by two people using two carrying bars through tubes in the case, thus allowing mounting in very confined spaces where lifting tackle cannot be used. Please note: filter should not be lifted by the terminals.

For maximum strength, the N2510 series filter casing is produced of electro tin-plated steel. To eliminate “eddy” current heating, both end panels and partition components are made of brass.

By connecting several of the N2510 filters in parallel, current capacities of 3,000 A or more can be achieved while maintaining the attenuation given by a single filter.

For termination of input and output cabling, the N2510 series have fully accessible end chambers.

APPLICATIONS

- High current power circuits
- EMP installations

STANDARD CONFIGURATION

- Provided with eight M10 threaded inserts which, together with the threaded Tufnol bush, provide excellent RF earthing of the filter case. An M16 earth stud is provided for electrical bonding
- Supplied with three expamet gaskets to take up any unevenness of a filter mounted to a welded shield

OPTIONS

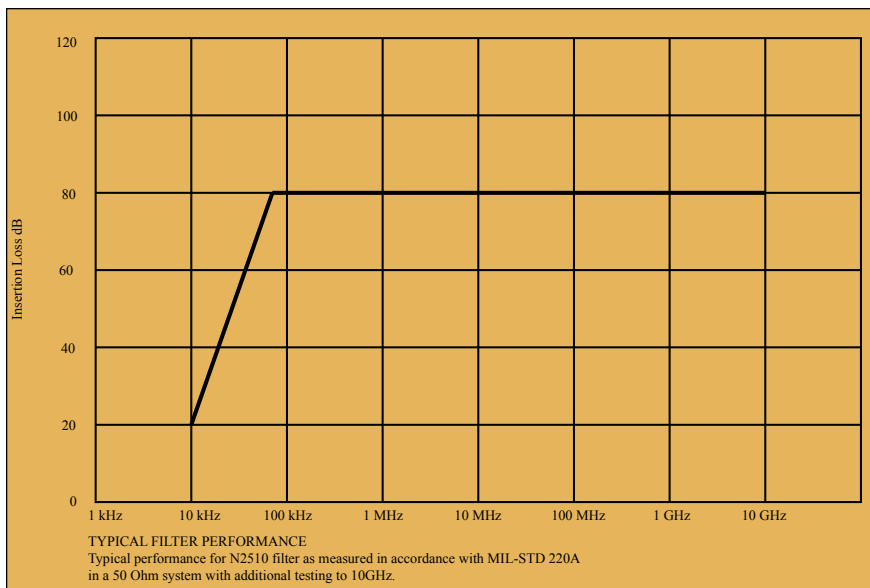
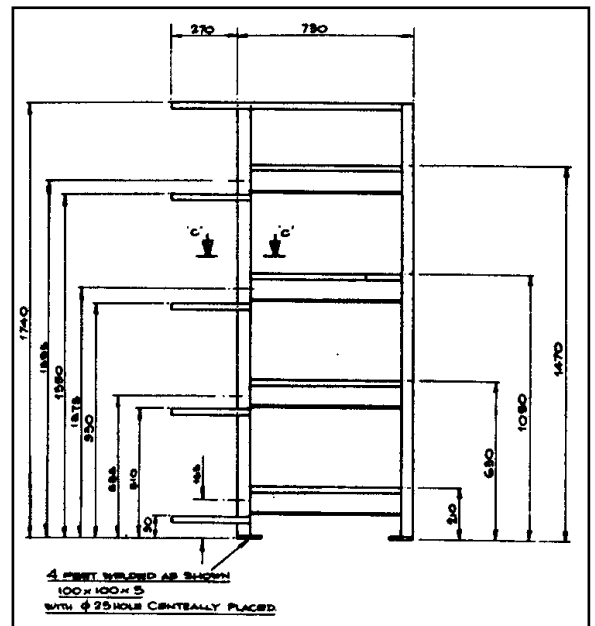
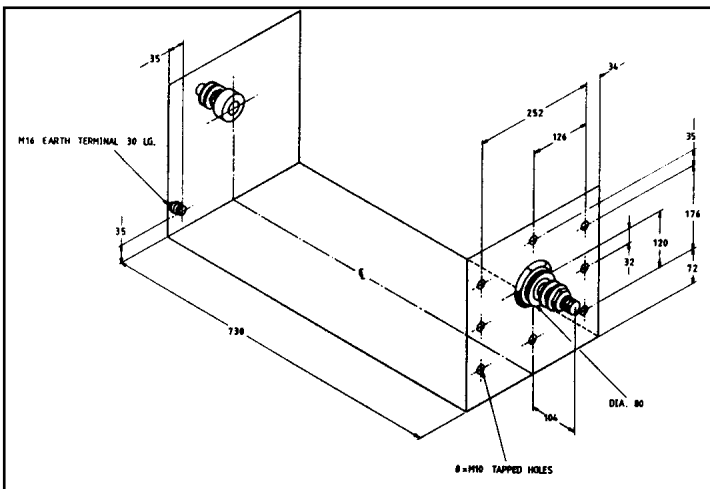
- TS (transient suppressor)
- HVTS (high voltage transient suppressor)
- N2511 Racking System (not provided with guards)
- Other options upon request

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
N2510	800 A	50/60 Hz	440/250 V	1	3 V	0.15 Ω	8.75 uH	64 uF	+20 ° C	+70 ° C	1.3 KW
N2510	400 A	400 Hz	120 V	1	3 V	0.15 Ω	8.75 uH	64 uF	+20 ° C	+70 ° C	1.3 KW

Physical Specifications

PART #	LENGTH	WIDTH	HEIGHT	WEIGHT (kg)
N2510	938 mm (36.9 in.)	320 mm (12.6 in.)	320 mm (12.6 in.)	95 kg (209.4 lbs.)



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