

FEATURES:

- Low volt drop
- Current range up to 10 Amps
- Protection for Tempest
- AC and DC options
- Interchangeable with L2962/72
- RoHS compliant and CE marked for compliance with the low voltage directive



N502X and N503X Control Filters

THE N502X AND N503X are EMP/EMI control filters for Tempest and EMC applications with performance of 100 dB from as low as 14 kHz and up to 10 GHz on full load conditions.

DESCRIPTION

Both filters are physically interchangeable with the L2962 and L2972 filters and are divided into two ranges for DC and AC options. The AC filters are also suitable for 400 Hz supplies.

Both ranges (AC and DC) are available with optionally fitted transient suppressors for surge and spike protection. The filter networks are RF sealed in high quality electro-tin plated steel cases and are shock resistant to 10g.

The load current must return through the filters to ensure that the maximum performance is maintained. Solid and permanent earthing of the case is essential for safety reasons and to ensure optimum performance.

FEATURES

These filters have a low voltage drop under a full load and a current range from 2 to 10 amps. They also provide protection for Tempest applications. Both are RoHS compliant and CE marked for compliance with the low voltage directive.

APPLICATIONS

- The DC filters are ideal for fire and intruder alarm systems, emergency lighting and DC control circuits such as lifts, automatic doors and relay controls.
- The AC filters' applications include the AC versions of the DC systems listed above, as well as low current lighting circuits and power supplies.

STANDARD CONFIGURATION

- Supplied with conduit bush for load end and all required fixings
- Dedicated neutral

OPTIONS

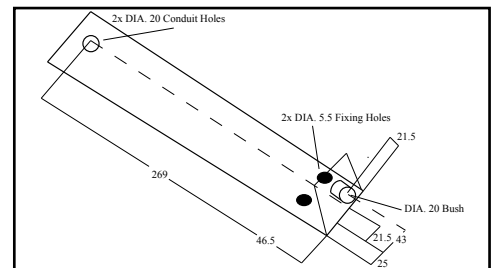
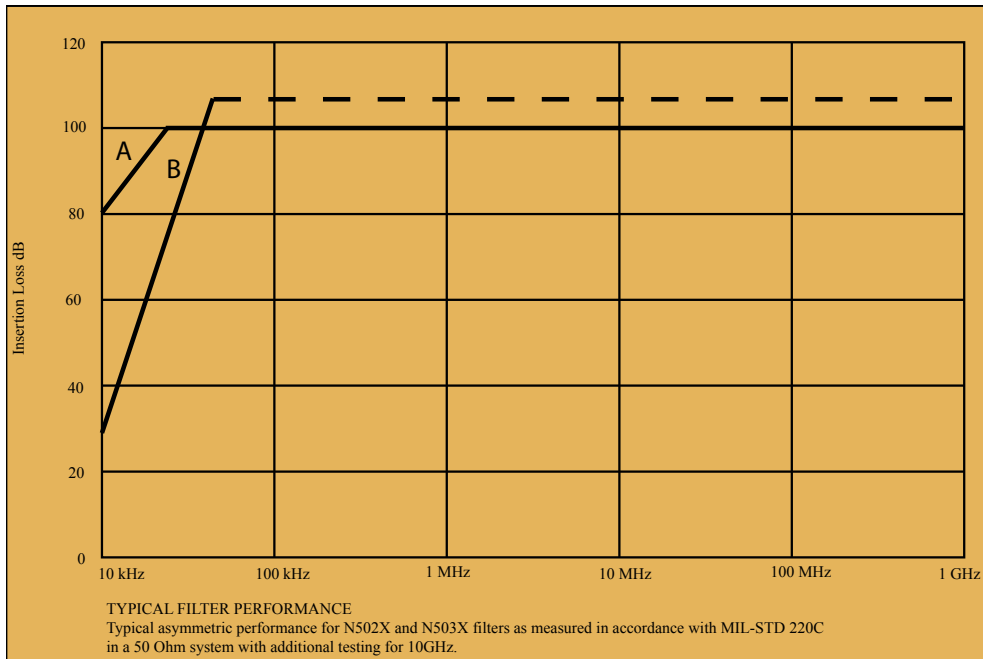
- TS (transient suppressor)
- HVTS (high voltage transient suppressor)
- Other options available upon request

Electrical Specifications

| PART # | CURRENT MAX | FREQUENCY/VOLTAGE MAX | # OF LINES | VOLTAGE DROP PER LINE AT FULL POWER | DC RESISTANCE PER LINE | MAX RECOMMENDED CASE TEMP | FILTERS FITTED WITH 125V TRANSIENT SUPPRESSORS | FILTERS FITTED WITH 250V TRANSIENT SUPPRESSORS |
|--------|-------------|-----------------------|------------|-------------------------------------|------------------------|---------------------------|--|--|
| N5020 | 2 amps | 100V/DC | 2 | 0.6 V | 0.3 ohms | 70 deg. Celsius | N5020TS | N/A |
| N5021 | 5 amps | 100V/DC | 2 | 0.2 V | 0.04 ohms | 70 deg. Celsius | N5021TS | N/A |
| N5022 | 10 amps | 100V/DC | 2 | 0.4 V | 0.04 ohms | 70 deg. Celsius | N5022TS | N/A |
| N5030 | 2 amps | 250V/50/60/400Hz | 2 | 0.7 V | 0.3 ohms | 70 deg. Celsius | N/A | N5030TS |
| N5031 | 5 amps | 250V/50/60/400Hz | 2 | 0.3 V | 0.04 ohms | 70 deg. Celsius | N/A | N5031TS |
| N5032 | 10 amps | 250V/50/60/400Hz | 2 | 0.5 V | 0.04 ohms | 70 deg. Celsius | N/A | N5032TS |

Physical Specifications

| PART # | LENGTH (mm) | WIDTH (mm) | HEIGHT (mm) | WEIGHT (kg) |
|--------|-------------|------------|-------------|-------------|
| N5020 | 362 mm | 93 mm | 55 mm | 1.7 Kg |
| N5021 | 362 mm | 93 mm | 55 mm | 1.8 Kg |
| N5022 | 362 mm | 93 mm | 55 mm | 1.8 Kg |
| N5030 | 362 mm | 93 mm | 55 mm | 1.7 Kg |
| N5031 | 362 mm | 93 mm | 55 mm | 1.8 Kg |
| N5032 | 362 mm | 93 mm | 55 mm | 1.8 Kg |



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