



MPE
Quality, Reliability, Performance

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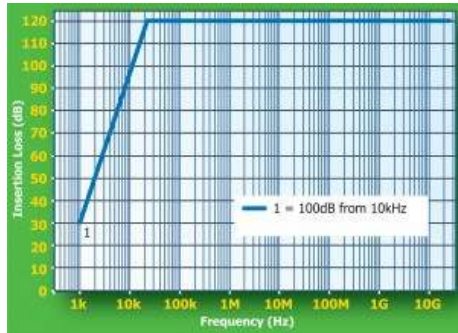
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Extended Performance Range Filters

Download



This range of filters has been designed to meet the very highest insertion loss requirement of 100dB from 10kHz to 10GHz and features an extended low frequency performance to provide considerable filter attenuation at frequencies as low as 1kHz

All MPE installation filters are tested using the test methods defined within the following standards and meet or exceed the relevant performance and/or safety criteria defined within these standards:

- Mil-F-15733
- Mil-Std-220C
- CISPR17:2011/BS EN 55017:2011
- UL1283
- EN60950/IEC60950/UL60950

GENERAL SPECIFICATIONS

| | |
|---|---|
| <p>Rated Voltage</p> <p>Rated Current</p> <p>Insertion Loss</p> <p>Maximum Temperature Rise on Full Load</p> <p>Operating Temperature Range on Full Load</p> <p>Maximum Full Load Heat Dissipation</p> <p>Maximum Volt Drop per line at Full Load d.c. Current</p> <p>Discharge time to below 34V</p> | <p>Single Phase Filters</p> <p>250V a.c. 50/60Hz (also suitable for 2 line d.c. supplies up to 600V d.c. provided that load current returns through the filter)</p> <p>Three Phase Filters</p> <p>250/440V a.c. 50/60Hz</p> <p>As tabulated</p> <p>100dB from 10kHz to 10GHz</p> <p>25°C</p> <p>-45°C to +50°C</p> <p>As tabulated</p> <p>As tabulated</p> <p>30s maximum</p> |
|---|---|

RANGE AVAILABILITY

| Current Rating (A) | MPE Part Number | Performance Curve | Volt Drop (mV) | Heat Dissipation (W) | Major Dimensions (mm) | | | Case Size (see Installation Details Page Installation Details) | Approx Weight (kg) |
|--------------------------|-----------------|-------------------|----------------|----------------------|-----------------------|-----|----|---|--------------------|
| | | | | | A | B | C | | |
| Single Phase (+N) | | | | | | | | | |
| 6 | DS25940 | 1 | 500 | 8 | 310 | 175 | 90 | a | 8 |
| 10 | DS25941 | 1 | 500 | 11 | 310 | 175 | 90 | a | 8 |
| 16 | DS25942 | 1 | 500 | 15 | 550 | 205 | 95 | e | 16 |
| 32 | DS25943 | 1 | 500 | 25 | 550 | 205 | 95 | e | 18 |

Extended Performance Range Filters

| | | | | | | | | | |
|-------------------------|---------|---|-----|-----|------|-----|-----|----|-----|
| 63 | DS25944 | 1 | 500 | 52 | 640 | 205 | 120 | i | 22 |
| 100 | DS25945 | 1 | 500 | 60 | 660 | 475 | 135 | u | 60 |
| 200 | DS26060 | 1 | 500 | 120 | 750 | 500 | 160 | pp | 75 |
| 400 | DS26062 | 1 | 500 | 160 | 1050 | 525 | 185 | qq | 110 |
| Three Phase (+N) | | | | | | | | | |
| 6 | DS25946 | 1 | 500 | 12 | 310 | 350 | 90 | b | 16 |
| 10 | DS25947 | 1 | 500 | 16 | 310 | 350 | 90 | b | 16 |
| 16 | DS25948 | 1 | 500 | 25 | 550 | 410 | 95 | g | 22 |
| 32 | DS25949 | 1 | 500 | 48 | 550 | 410 | 95 | g | 24 |
| 63 | DS25950 | 1 | 500 | 70 | 660 | 410 | 135 | j | 45 |
| 100 | DS25951 | 1 | 500 | 70 | 660 | 575 | 150 | v | 70 |
| 200 | DS26061 | 1 | 500 | 120 | 750 | 700 | 170 | rr | 95 |
| 400 | DS26063 | 1 | 500 | 240 | 1700 | 700 | 170 | ss | 200 |

TRANSIENT SUPPRESSION

All types can be supplied with integral transient suppression fitted between each input terminal and earth.

Varistor rating : 275V a.c. 140 Joules (10/1000µs)

Other varistor ratings can also be supplied. To specify the transient suppressed version, suffix V is added to the filter part number (see ordering code).

Typical Installation Details

The standard cable entry consists of an end conduit entry hole on the filter input (supply) side and a base conduit exit hole on the output (load) side.

Filters can be supplied with other cable entry positions if required upon request. Please refer to Installation Details page.

To facilitate installation of these filters, separate fixing kits are available to suit bulkhead panel thicknesses up to 20mm. Please refer to fixing kits product page.

ORDERING CODE

DS [XXXXX](#) / X / X e.g. DS25940CV

Filter Part Number

Suffix C for standard cable entry

For other cable entries, see Installation Details page

Add suffix V for transient suppressed filter