

AC Filter for PCB Mounting Cost Optimized

Standard- or Medical-Filter



### Description

- Line filter in standard and medical version
- 1-stage
- standard attenuation

### Approvals

- Approval Reference Type: FPP2
- VDE Certificate Number: 40004673
- UL File Number: E72928

### Characteristics

- Cost-saving plastic housing
- Designed for standard applications
- Protection against interference voltage from the mains
- Possible interferences generated in the equipment are strongly attenuated
- For standard applications
- Suitable for use in equipment according to IEC/UL 60950

### Other versions on request

- Version with wire connection
- Medical version M80

### References

Alternative: Standard version

### Weblinks

[pdf datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [Distributor-Stock-Check](#), [Detailed request for product](#), [Microsite](#)

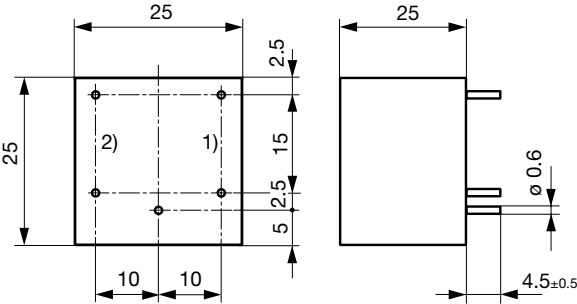
### Technical Data

|                                 |                                                                             |
|---------------------------------|-----------------------------------------------------------------------------|
| Ratings IEC                     | 0.6 - 6 A @ Ta 40 °C / 250 VAC; 50 Hz                                       |
| Ratings UL/CSA                  | 0.6 - 6 A @ Ta 40 °C / 125 VAC; 60 Hz                                       |
| Leakage Current                 | standard < 0.25 mA (250 V / 60 Hz)<br>medical < 5 µA (250 V / 60 Hz)        |
| Dielectric Strength             | > 1.7 kVDC between L-N<br>> 2.7 kVDC between L/N-PE<br>Test voltage (2 sec) |
| Allowable Operation Temperature | -25 °C to 85 °C                                                             |
| Climatic Category               | 25/085/21 acc. to IEC 60068-1                                               |
| Protection Class                | Suitable for appliances with protection class I acc. to IEC 61140           |
| Terminal                        | For PCB mounting, tin-plated                                                |
| Material: Housing               | Thermoplastic, black, UL 94V-0                                              |

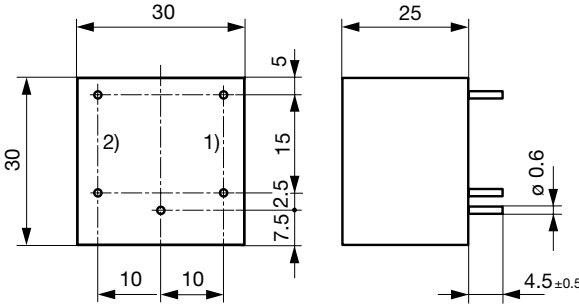
|             |                                                                                                        |
|-------------|--------------------------------------------------------------------------------------------------------|
| Line Filter | Standard and Medical Version, IEC 60939, UL 1283, CSA C22.2 no. 8<br><a href="#">Technical Details</a> |
| MTBF        | > 200'000 h acc. to MIL-HB-217 F                                                                       |

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [General Product Information](#)

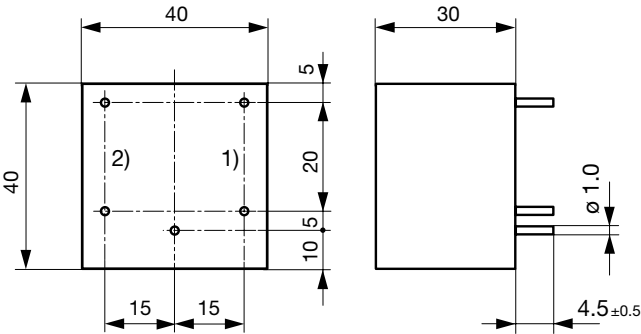
Dimension [mm]  
Case 13P



Case 18P



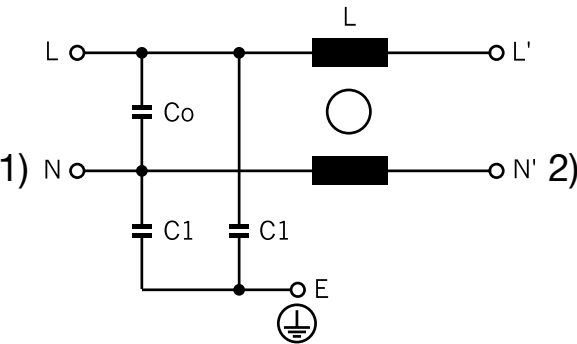
Case 24P



- 1) Line
- 2) Load

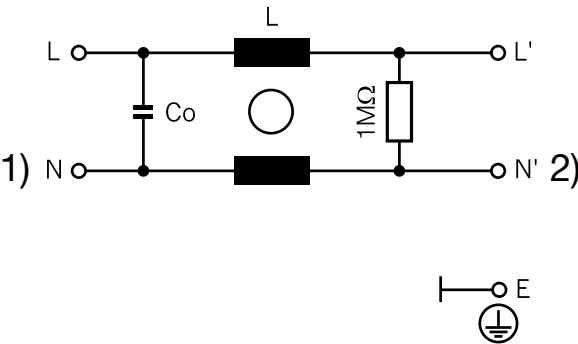
Diagrams

S1 standard version



- 1) Line
- 2) Load

S2 medical version



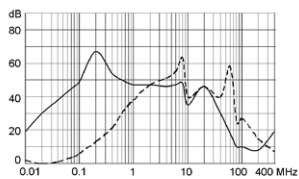
- 1) Line
- 2) Load

## Attenuation Loss

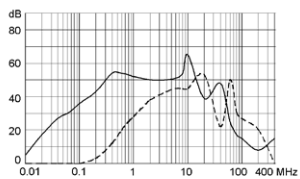
Standard version

--- 50Ω differential mode \_\_\_\_ 50Ω common mode

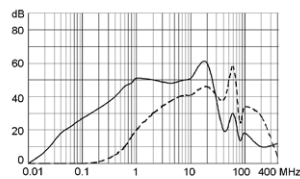
0.6 A



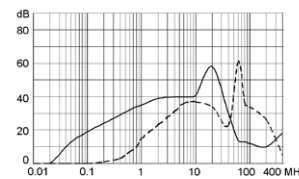
1 A



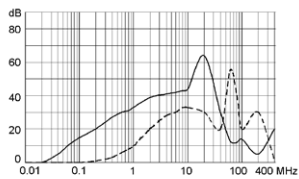
2 A



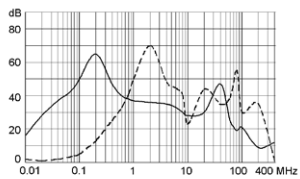
4 A



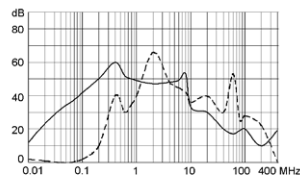
6 A



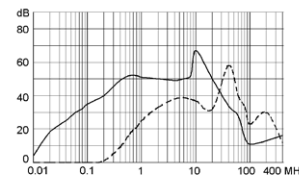
0.7 A



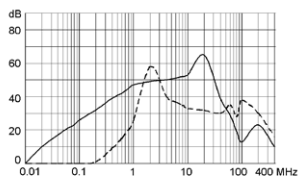
1 A



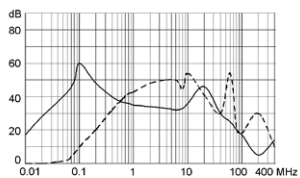
2 A



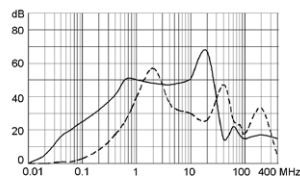
3 A



1 A

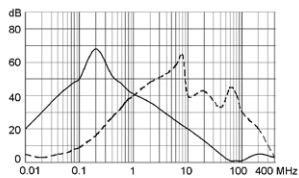


3 A

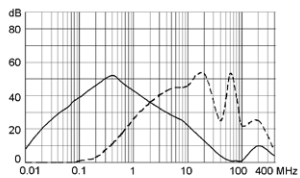


Medical version (M5)

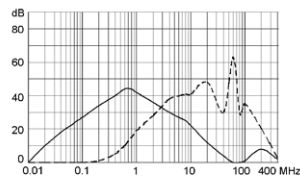
0.6 A



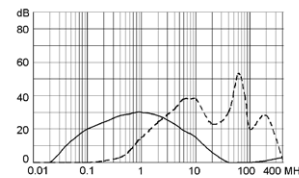
1 A



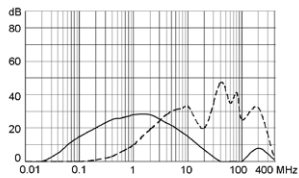
2 A



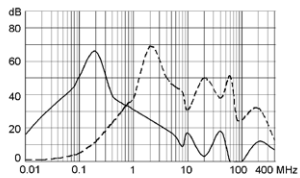
4 A



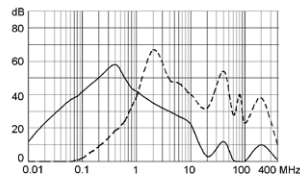
6 A



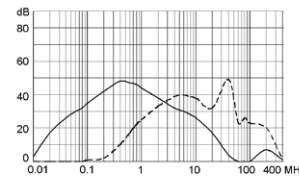
0.7 A



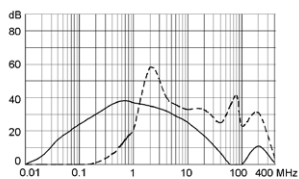
1 A



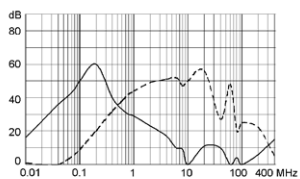
2 A



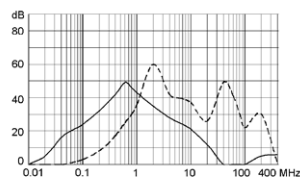
3 A



1 A



3 A



## All Variants

| Rated Current [A] | Filter-Type          | L [mH]  | Co / C2 (X2) [μF] | C1 (Y2) [nF] | Diagram | Weight [g] | Housings | Order Number              |   |
|-------------------|----------------------|---------|-------------------|--------------|---------|------------|----------|---------------------------|---|
| 0.6               | Standard Version     | 2 x 40  | 0.015             | 2.2          | S1      | 27 g       | 13P      | <a href="#">5500.2000</a> | ■ |
| 1                 | Standard Version     | 2 x 10  | 0.015             | 2.2          | S1      | 27 g       | 13P      | <a href="#">5500.2001</a> | ■ |
| 2                 | Standard Version     | 2 x 4   | 0.015             | 2.2          | S1      | 27 g       | 13P      | <a href="#">5500.2002</a> | ■ |
| 4                 | Standard Version     | 2 x 1.5 | 0.015             | 2.2          | S1      | 27 g       | 13P      | <a href="#">5500.2003</a> | ■ |
| 6                 | Standard Version     | 2 x 0.8 | 0.015             | 2.2          | S1      | 35 g       | 13P      | <a href="#">5500.2004</a> |   |
| 0.7               | Standard Version     | 2 x 40  | 0.015             | 2.2          | S1      | 32 g       | 18P      | <a href="#">5500.2005</a> |   |
| 1                 | Standard Version     | 2 x 20  | 0.022             | 2.2          | S1      | 32 g       | 18P      | <a href="#">5500.2006</a> |   |
| 2                 | Standard Version     | 2 x 6   | 0.022             | 2.2          | S1      | 32 g       | 18P      | <a href="#">5500.2007</a> |   |
| 3                 | Standard Version     | 2 x 3   | 0.022             | 2.2          | S1      | 32 g       | 18P      | <a href="#">5500.2008</a> |   |
| 1                 | Standard Version     | 2 x 30  | 0.047             | 2.2          | S1      | 78 g       | 24P      | <a href="#">5500.2009</a> |   |
| 3                 | Standard Version     | 2 x 4   | 0.047             | 2.2          | S1      | 78 g       | 24P      | <a href="#">5500.2010</a> |   |
| 0.6               | Medical Version (M5) | 2 x 40  | 0.015             | -            | S2      | 35 g       | 13P      | <a href="#">5500.2116</a> |   |
| 1                 | Medical Version (M5) | 2 x 10  | 0.015             | -            | S2      | 35 g       | 13P      | <a href="#">5500.2117</a> |   |
| 2                 | Medical Version (M5) | 2 x 4   | 0.015             | -            | S2      | 25.5 g     | 13P      | <a href="#">5500.2118</a> |   |
| 4                 | Medical Version (M5) | 2 x 1.5 | 0.015             | -            | S2      | 35 g       | 13P      | <a href="#">5500.2119</a> |   |
| 6                 | Medical Version (M5) | 2 x 0.8 | 0.015             | -            | S2      | 35 g       | 13P      | <a href="#">5500.2120</a> |   |
| 0.7               | Medical Version (M5) | 2 x 40  | 0.015             | -            | S2      | 45 g       | 18P      | <a href="#">5500.2121</a> |   |
| 1                 | Medical Version (M5) | 2 x 20  | 0.022             | -            | S2      | 45 g       | 18P      | <a href="#">5500.2122</a> |   |
| 2                 | Medical Version (M5) | 2 x 6   | 0.022             | -            | S2      | 45 g       | 18P      | <a href="#">5500.2123</a> |   |
| 3                 | Medical Version (M5) | 2 x 3   | 0.022             | -            | S2      | 45 g       | 18P      | <a href="#">5500.2124</a> |   |
| 1                 | Medical Version (M5) | 2 x 30  | 0.047             | -            | S2      | 78 g       | 24P      | <a href="#">5500.2125</a> |   |
| 3                 | Medical Version (M5) | 2 x 4   | 0.047             | -            | S2      | 78 g       | 24P      | <a href="#">5500.2126</a> |   |

■ Most Popular.

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