

AC Filter for PCB Mounting in Flat Aluminum Housing



Approvals and Compliances

Description

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

Characteristics

- Aluminum case provides good shielding
- Designed for standard applications
- Protection against interference voltage from the mains
- Possible interferences generated in the equipment are strongly attenuated
- Universal line filter for standard applications
- Suitable for use in equipment according to IEC/UL 60950

Other versions on request

- Medical version M80

References

Alternative: Standard version

Weblinks

[pdf datasheet](#), [html-datasheet](#), [General Product Information](#), [Distributor-Stock-Check](#), [Detailed request for product](#), [Microsite](#)

Technical Data

| | |
|---------------------------------|---|
| Ratings IEC | 2 - 16 A @ Ta 40 °C / 250 VAC; 50 Hz |
| Ratings UL/CSA | 2 - 16 A @ Ta 40 °C / 125 VAC; 60 Hz |
| Leakage Current | standard < 0.5 mA (250 V / 60 Hz) |
| Dielectric Strength | > 1.7 kVDC between L-N > 2.7 kVDC between L/N-PE Test voltage (2 sec) |
| Allowable Operation Temperature | -25 °C to 100 °C |
| Climatic Category | 25/100/21 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 | Aluminum |

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



Approvals and Compliances

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

Approvals







The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products.

Approval Reference Type: FMAB

| Approval Logo | Certificates | Certification Body | Description |
|---|-------------------------------|--------------------|------------------------------|
|  | VDE Approvals | VDE | Certificate Number: 40004673 |
|  | UL Approvals | UL | UL File Number: E72928 |



Product standards

Product standards that are referenced

| Organization | Design | Standard | Description |
|--|-----------------------|------------------|---|
|  | Designed according to | IEC 60320-1 | Appliance couplers for household and similar general purposes |
|  | Designed according to | IEC 60939 | Passive filters for suppressing electromagnetic interference |
|  | Designed according to | UL 498 | Standard for Attachment Plugs and Receptacles |
|  | Designed according to | UL 1283 | Electromagnetic interference filters |
|  | Designed according to | CSA C22.2 no. 42 | General Use Receptacles, Attachment Plugs, and Similar Wiring Devices |
|  | Designed according to | CSA C22.2 no. 8 | Electromagnetic interference (EMI) filters |






Application standards

Application standards where the product can be used

| Organization | Design | Standard | Description |
|--|--------------------------------|--------------|--|
|  | Designed for applications acc. | IEC/UL 60950 | IEC 60950-1 includes the basic requirements for the safety of information technology equipment. |
|  | Designed for applications acc. | IEC 60601-1 | Medical electrical equipment - Part 1: General requirements for basic safety and essential performance |

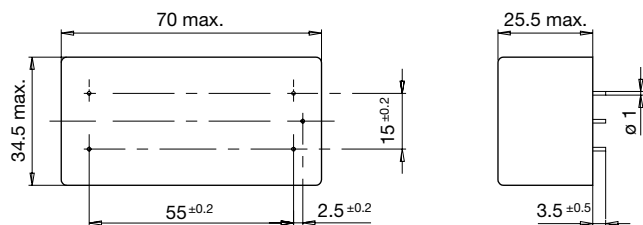
Compliances

The product complies with following Guide Lines

| Identification | Details | Initiator | Description |
|--|------------------------------|-------------|---|
|  | CE declaration of conformity | SCHURTER AG | The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008. |
|  | RoHS | SCHURTER AG | EU Directive RoHS 2011/65/EU |
|  | China RoHS | SCHURTER AG | The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS. |
|  | REACH | SCHURTER AG | On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force. |
|  | Medical Equipment | SCHURTER AG | Suitable for use in medical equipment according to IEC/UL 60601-1 |

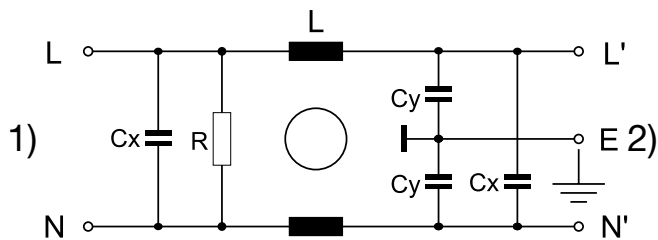
Dimension [mm]

Case 72



Diagrams

Standard version



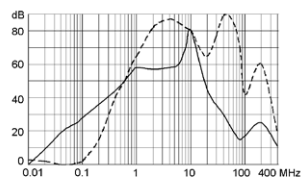
- 1) Line
 2) Load

Attenuation Loss

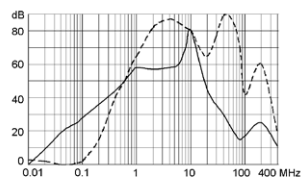
Standard version

--- 50Ω differential mode ____ 50Ω common mode

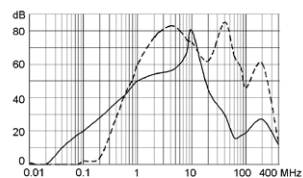
2 A



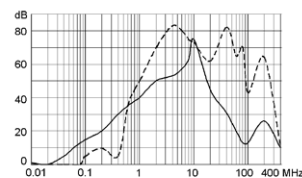
4 A



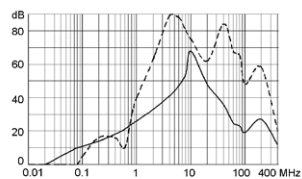
6 A



10 A

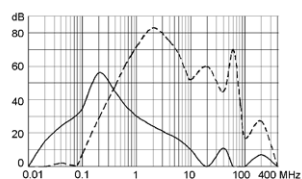


16 A

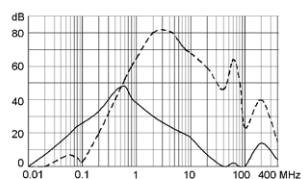


Medical version (M5)

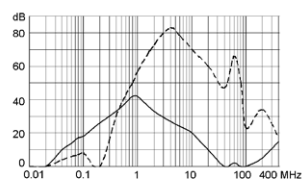
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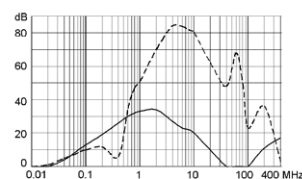
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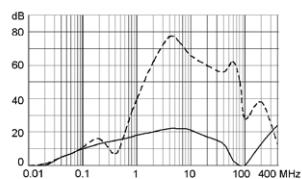
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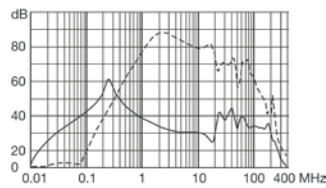


16 A

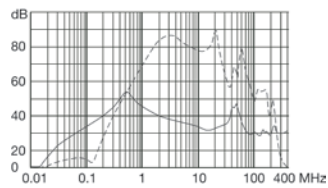


Medical version (M80)

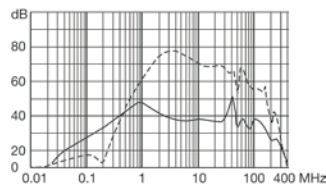
2 A



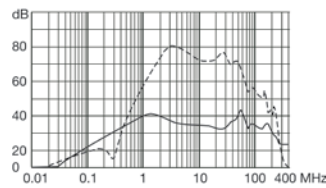
4 A



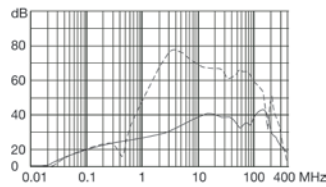
6 A



10 A



16 A



All Variants

| Rated Current [A] | Filter-Type | L [mH] | Cx (X2) [nF] | Cy (Y2) [nF] | R [MΩ] | Weight [g] | Housings | Order Number |
|-------------------|-----------------------|----------|--------------|--------------|--------|------------|----------|--------------|
| 2 | Standard Version | 2 x 8 | 100 | 4.7 | 1 | 114 g | 72 | 5500.2021 |
| 4 | Standard Version | 2 x 3.5 | 100 | 4.7 | 1 | 114 g | 72 | 5500.2022 |
| 6 | Standard Version | 2 x 1.8 | 100 | 4.7 | 1 | 115 g | 72 | 5500.2023 |
| 10 | Standard Version | 2 x 0.82 | 100 | 4.7 | 1 | 115 g | 72 | 5500.2024 |
| 16 | Standard Version | 2 x 0.65 | 100 | 4.7 | 1 | 115 g | 72 | 5500.2025 |
| 2 | Medical Version (M5) | 2 x 8 | 100 | - | 1 | 114 g | 72 | 5500.2106 |
| 4 | Medical Version (M5) | 2 x 3.5 | 100 | - | 1 | 114 g | 72 | 5500.2107 |
| 6 | Medical Version (M5) | 2 x 1.8 | 100 | - | 1 | 115 g | 72 | 5500.2108 |
| 10 | Medical Version (M5) | 2 x 0.82 | 100 | - | 1 | 115 g | 72 | 5500.2109 |
| 16 | Medical Version (M5) | 2 x 0.65 | 100 | - | 1 | 115 g | 72 | 5500.2110 |
| 2 | Medical Version (M80) | - | - | - | - | 114 g | 72 | 5500.2111 |
| 4 | Medical Version (M80) | - | - | - | - | 114 g | 72 | 5500.2112 |
| 6 | Medical Version (M80) | - | - | - | - | 115 g | 72 | 5500.2113 |
| 10 | Medical Version (M80) | - | - | - | - | 115 g | 72 | 5500.2114 |
| 16 | Medical Version (M80) | - | - | - | - | 115 g | 72 | 5500.2115 |

Most Popular:

Availability for all products can be searched real-time:<https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>

Packaging unit

10 Pcs