

AC Filter for PCB Mounting in Flat Housing



Approvals and Compliances

**Description**

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

**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](#), [Distributor-Stock-Check](#), [Detailed request for product](#), [Microsite](#)

**Technical Data**

|                                 |   |
|---------------------------------|---|
| Ratings IEC                     | 0.5 - 6,5A @ Ta 40 °C / 250VAC; 50Hz                                      |
| Ratings UL/CSA                  | 0.5 - 6.5A @ Ta 40 °C / 125VAC; 60Hz                                      |
| Leakage Current                 | standard < 0.25mA (250V / 60Hz)<br>medical < 5 µA (250 V / 60 Hz)         |
| Dielectric Strength             | > 1.7kVDC between L-N<br>> 2.7kVDC 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        | > 200'000h 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: FPP2

| Approval Logo | Certificates                  | Certification Body | Description                  |
|---------------|-------------------------------|--------------------|------------------------------|
|               | <a href="#">VDE Approvals</a> | VDE                | Certificate Number: 40004673 |
|               | <a href="#">UL Approvals</a>  | 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

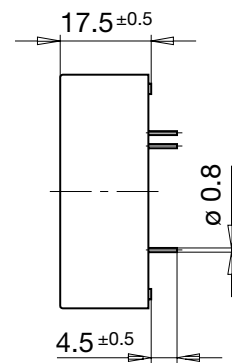
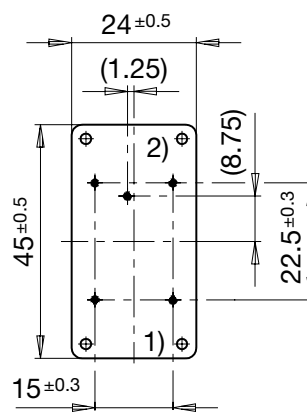
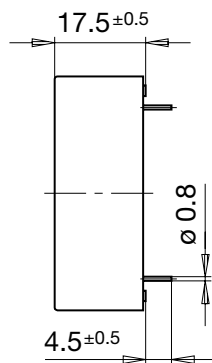
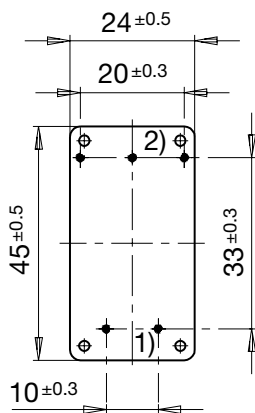
The product complies with following Guide Lines

| 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 27P

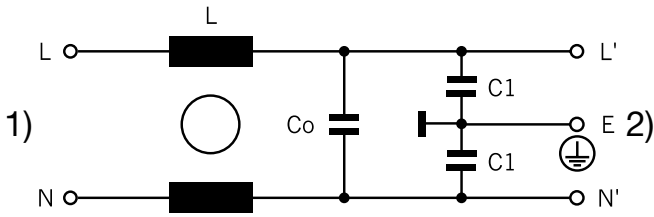
Case 27-1P



1) Line  
 2) Load

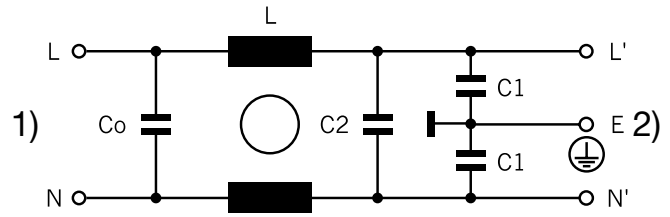
Diagrams

S2 standard version



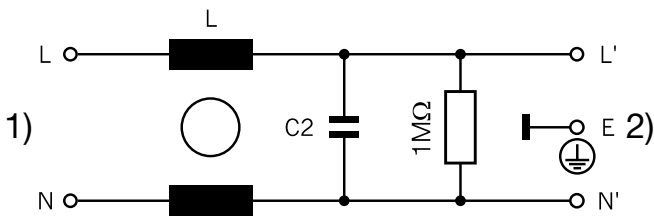
1) Line  
 2) Load

S3 standard version



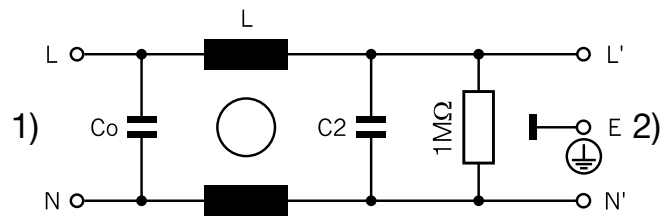
1) Line  
 2) Load

S4 medical version



1) Line  
 2) Load

S5 medical version



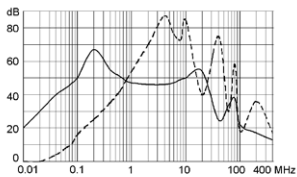
1) Line  
 2) Load

Attenuation Loss

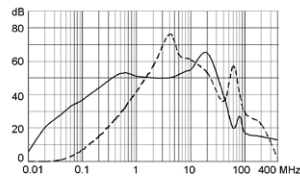
----- 50Ω differential mode    \_\_\_\_\_ 50Ω common mode

Standard version

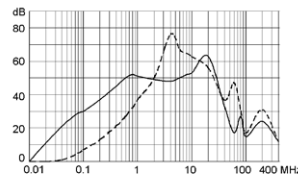
0.5 A



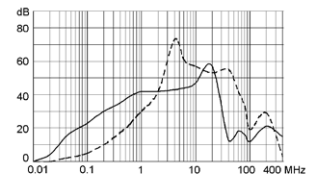
1 A



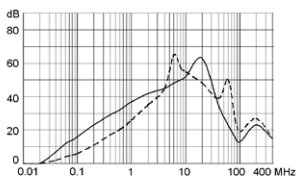
1.6 A



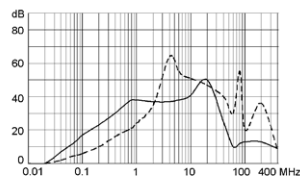
2.5 A



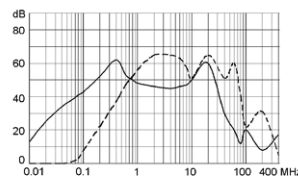
4 A



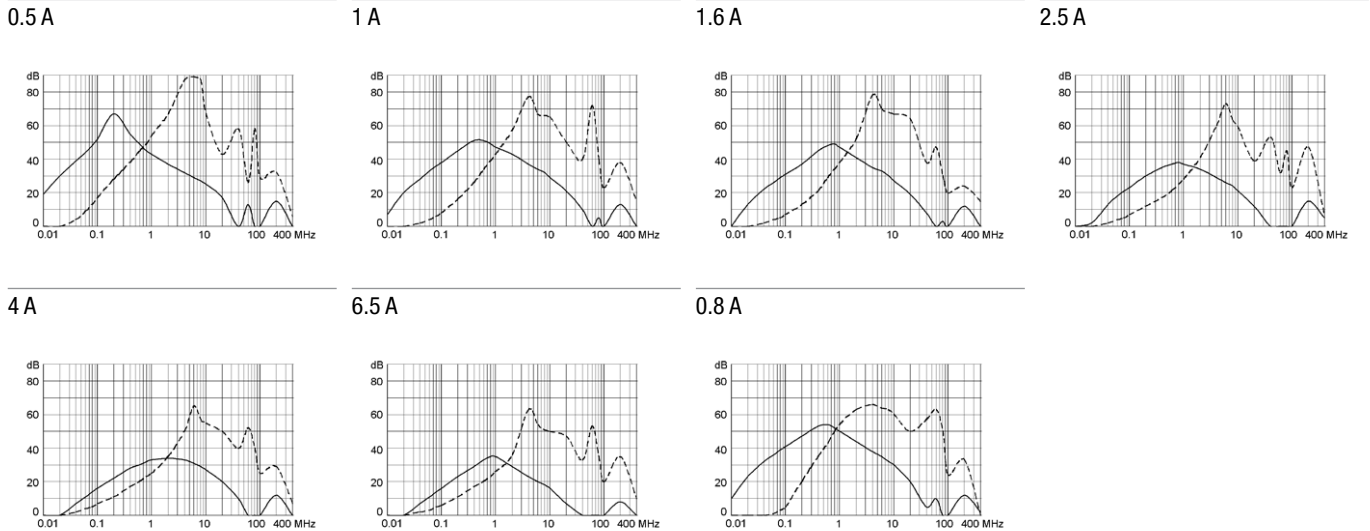
6.5 A



0.8 A



Medical version (M5)



### All Variants

| Rated Current [A] | Filter-Type          | L [mH] | Co / C2 (X2) [µF] | C1 (Y2) [nF] | Diagram | Weight [g] | Housings | Order Number |
|-------------------|----------------------|--------|-------------------|--------------|---------|------------|----------|--------------|
| 0.8               | Standard Version     | 2 x 20 | 0.068/0.015       | 2.2          | S3      | 32 g       | 27-1P    | 5500.2020    |
| 0.5               | Standard Version     | 2 x 40 | 0.1               | 2.2          | S2      | 32 g       | 27P      | 5500.2014    |
| 1                 | Standard Version     | 2 x 10 | 0.1               | 2.2          | S2      | 32 g       | 27P      | 5500.2015    |
| 1.6               | Standard Version     | 2 x 6  | 0.1               | 2.2          | S2      | 32 g       | 27P      | 5500.2016    |
| 2.5               | Standard Version     | 2 x 2  | 0.1               | 2.2          | S2      | 32 g       | 27P      | 5500.2017    |
| 4                 | Standard Version     | 2 x 1  | 0.1               | 2.2          | S2      | 32 g       | 27P      | 5500.2018    |
| 6,5               | Standard Version     | 2 x 1  | 0.1               | 2.2          | S2      | 32 g       | 27P      | 5500.2019    |
| 0.8               | Medical Version (M5) | 2 x 20 | 0.068/0.015       | -            | S5      | 38 g       | 27-1P    | 5500.2129    |
| 0.5               | Medical Version (M5) | 2 x 40 | 0.1               | -            | S4      | 32 g       | 27P      | 5500.2127    |
| 1                 | Medical Version (M5) | 2 x 10 | 0.1               | -            | S4      | 32 g       | 27P      | 5500.2130    |
| 1.6               | Medical Version (M5) | 2 x 6  | 0.1               | -            | S4      | 32 g       | 27P      | 5500.2131    |
| 2.5               | Medical Version (M5) | 2 x 2  | 0.1               | -            | S4      | 32 g       | 27P      | 5500.2132    |
| 4                 | Medical Version (M5) | 2 x 1  | 0.1               | -            | S4      | 32 g       | 27P      | 5500.2133    |
| 6,5               | Medical Version (M5) | 2 x 1  | 0.1               | -            | S4      | 38 g       | 27P      | 5500.2128    |

Most Popular.

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

**Packaging unit** 70 Pcs