### AC Filter





- Line filter in standard and medical version

# **Approvals and Compliances**

### **Characteristics**

- 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

- Version with wire connection
- Version with varistor for overvoltage protection

#### References

Alternative: Standard version

## Weblinks

pdf datasheet, html-datasheet, General Product Information, Distributor-Stock-Check, Detailed request for product, Microsite

## **Technical Data**

Description

- standard attenuation

- 1-stage

lechnical Data			
Ratings IEC	1 - 10A @ Ta 40 °C / 250 VAC; 50 Hz	Line Filter	Standard and Medical Version, IEC
Ratings UL/CSA	1 - 10A @ Ta 40 °C / 125 VAC; 60 Hz		60939, UL 1283, CSA C22.2 no. 8
Leakage Current	standard < 0.25 mA (250 V / 60 Hz)		Technical Details
-	medical (M5) < 5 µA resp. (M80) < 80	MTBF	> 200'000h acc. to MIL-HB-217 F
	μA (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 Tempe-	-25 °C to 100 °C		
rature			
Climatic Category	25/100/21 acc. to IEC 60068-1		
Protection Class	Suitable for appliances with protection		
	class I acc. to IEC 61140		
Terminal	Quick connect terminals 6.3 x 0.8 mm		
Material: Housing	Aluminum		

### **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: FMW

Approval Logo	Certificates	Certification Body	Description
10	VDE Approvals	VDE	Certificate Number: 40004673
c <b>RU</b> us	UL Approvals	UL	UL File Number: E72928

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## **Product standards**

Product standards that are referenced

Organization	Design	Standard	Description
<u>IEC</u>	Designed according to	IEC 60320-1	Appliance couplers for household and similar general purposes
IEC.	Designed according to	IEC 60939	Passive filters for suppressing electromagnetic interference
(UL)	Designed according to	UL 498	Standard for Attachment Plugs and Receptacles
(UL)	Designed according to	UL 1283	Electromagnetic interference filters
CSA Group	Designed according to	CSA C22.2 no. 42	General Use Receptacles, Attachment Plugs, and Similar Wiring Devices
CSA Group	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
IEC	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technologyequipment.
IEC	Designed for applications acc.	IEC 60601-1	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance

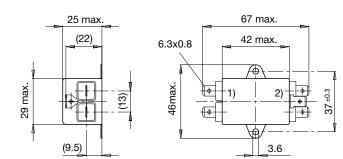
# Compliances

The product complies with following Guide Lines

	5		
Identification	Details	Initiator	Description
CE	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	RoHS	SCHURTER AG	EU Directive RoHS 2011/65/EU
0	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	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.
T	Medical Equipment	SCHURTER AG	Suitable for use in medical equipment according to IEC/UL 60601-1

## **Dimension** [mm]

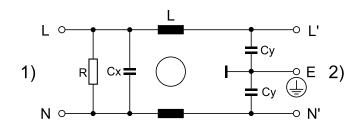
Case 41



1) Line 2) Load

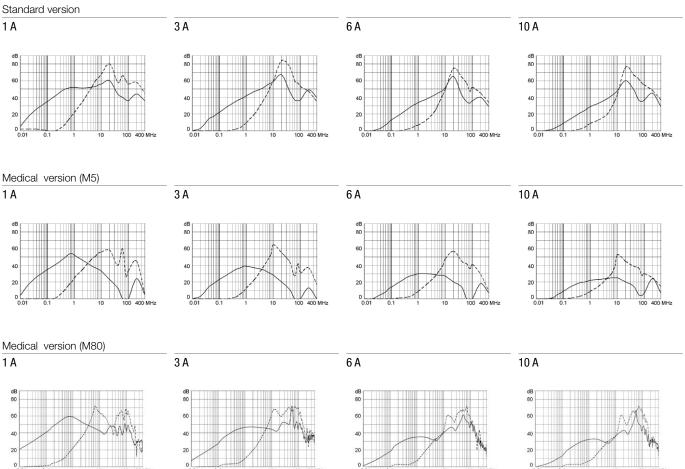
- - - - 50 $\Omega$  differential mode \_\_\_\_\_ 50 $\Omega$  common mode

# Diagrams



R and Cy according to version, see variants 1) Line, 2) Load

## **Attenuation Loss**



# All Variants

Rated Current [A]	Filter-Type	Leakage Cur- rent [mA]	L [mH]	Cx [nF]	Cy [nF]	<b>R [M</b> Ω]	Weight [g]	Order Number
1	Standard Version	0.25	2 x 10	15	2.2	-	55 g	5500.2039
3	Standard Version	0.25	2 x 2	15	2.2	-	55 g	5500.2040
6	Standard Version	0.25	2 x 0.8	15	2.2	-	55 g	5500.2041
10	Standard Version	0.25	2 x 0.4	15	2.2	-	55 g	5500.2042
1	Medical Version (M5)	0.005	2 x 10	15	-	1	55 g	5500.2098
3	Medical Version (M5)	0.005	2 x 2	15	-	1	55 g	5500.2104
6	Medical Version (M5)	0.005	2 x 0.8	15	-	1	55 g	5500.2100
10	Medical Version (M5)	0.005	2 x 0.4	15	-	1	55 g	5500.2102

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Rated Current [A]	Filter-Type	Leakage Cur- rent [mA]	L [mH]	Cx [nF]	Cy [nF]	<b>R [Μ</b> Ω]	Weight [g]	Order Number
1	Medical Version (M80)	0.08	2 x 10	15	0.47	1	55 g	5500.2099
3	Medical Version (M80)	0.08	2 x 2	15	0.47	1	55 g	5500.2105
6	Medical Version (M80)	0.08	2 x 0.8	15	0.47	1	55 g	5500.2101
10	Medical Version (M80)	0.08	2 x 0.4	15	0.47	1	55 g	5500.2103

Most Popular.

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

Packaging unit 25 Pcs