### AC Filter Cost Optimized



#### See below:

### **Approvals and Compliances**

# **Description**

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

#### **Characteristics**

- Designed for standard applications
- Protection against interference voltage from the mains Possible interferences generated in the equipment are strongly attenu-
- Suitable for use in equipment according to IEC/UL 62368-1 Suitable for use in medical equipment according to IEC/UL 60601-1

## Other versions on request

- Version with varistor for overvoltage protection

#### References

Alternative: Standard version

We recommend for new applications the type FMAB NEO

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

	Data

Ratings IEC	1 - 10 A @ Ta 40 °C / 250 VAC; 50 Hz			
Ratings UL/CSA	1 - 10 A @ Ta 40 °C / 125 VAC; 60 Hz			
Leakage Current	standard < 0.25 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 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	Nickel plated steel			

Line Filter	Standard and Medical Version, IEC 60939, UL 1283, CSA C22.2 no. 8 Technical Details
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

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

## **Approvals**

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

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

### **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
<u>IEC</u>	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
GF 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

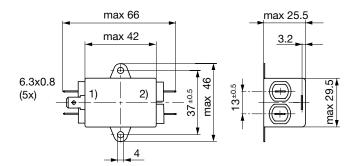
Organization	Design	Standard	Description
<u>IEC</u>	Designed for applications acc.	IEC/UL 62368-1	IEC 62368-1 includes the basic requirements for safety of audio, video, information technology and office equipment.
<u>IEC</u>	Designed for applications acc.	IEC 60601-1	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance

## Compliances

The product complies with following Guide Lines

Identification	Details	Initiator	Description
C€	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	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
<b>©</b>	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 Technology	SCHURTER AG	Suitable for use in medical equipment according to IEC/UL 60601-1

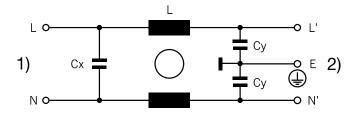
# Dimension [mm]

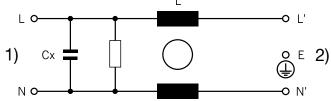


# **Diagrams**

Standard version

Medical Version (M5)

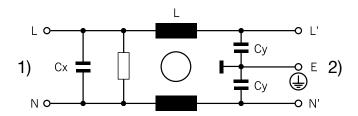




- 1) Line
- 2) Load

1) Line 2) Load

Medical Version (M80)

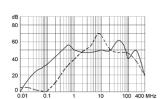


- 1) Line
- 2) Load

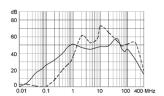
# **Attenuation Loss** Standard version

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

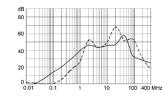
1 A



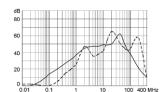
2 A



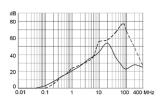
4 A



6 A

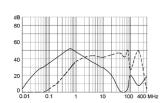


10 A

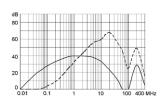


## Medical version (M5)

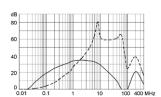
1 A



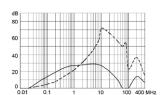
2 A



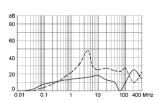
4 A



6 A

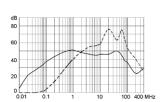


10 A

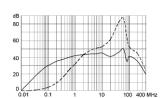


## Medical version (M80)

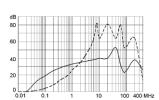
1 A



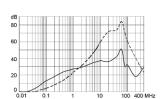
2 A



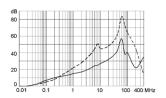
4 A



6 A



10 A



# **All Variants**

Rated Current [A]	Filter-Type	Leakage Cur- rent [mA]	L [mH]	Cx (X2) [nF]	Cy (Y2) [nF]	Weight [g]	Housings	Order Number
1	Standard version	0.25	2 x 10	68	2.2	50 g	41	5500.2026
2	Standard version	0.25	2 x 4	68	2.2	50 g	41	5500.2027
4	Standard version	0.25	2 x 1.5	68	2.2	50 g	41	5500.2028
6	Standard version	0.25	2 x 0.8	68	2.2	65 g	41	5500.2029
10	Standard version	0.25	2 x 0.3	68	2.2	65 g	41	5500.2030
1	Medical Version (M5)	0.005	2 x 10	68	-	50 g	41	5500.2077
2	Medical Version (M5)	0.005	2 x 4	68	-	50 g	41	5500.2078
4	Medical Version (M5)	0.005	2 x 1.5	68	-	50 g	41	5500.2079
6	Medical Version (M5)	0.005	2 x 0.8	68	-	65 g	41	5500.2080
10	Medical Version (M5)	0.005	2 x 0.3	68	-	65 g	41	5500.2081
1	Medical Version (M80)	0.08	2 x 10	68	0.47	50 g	41	5500.2089
2	Medical Version (M80)	0.08	2 x 4	68	0.47	50 g	41	5500.2090
4	Medical Version (M80)	0.08	2 x 1.5	68	0.47	50 g	41	5500.2091
6	Medical Version (M80)	0.08	2 x 0.8	68	0.47	65 g	41	5500.2092
10	Medical Version (M80)	0.08	2 x 0.3	68	0.47	65 g	41	5500.2093

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25 Pcs Packaging unit