FMAB-72

AC Filter for PCB Mounting in Flat Aluminum Housing



See below:
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 62368-1

Applications
- Aluminum case provides good shielding
- Protection against interference voltage from the mains
- Universal line filter for standard applications
- Suitable for use in equipment according to IEC/UL 62368-1

Other versions on request
- Medical Version (M80)

References
Alternative: Standard version

Weblinks
pdf data sheet, html datasheet, General Product Information, Approvals, 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

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: 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 60939	Passive filters for suppressing electromagnetic interference
	Designed according to	UL 1283	Electromagnetic interference filters
	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 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements
	Designed for applications acc.	IEC 60601-1	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance

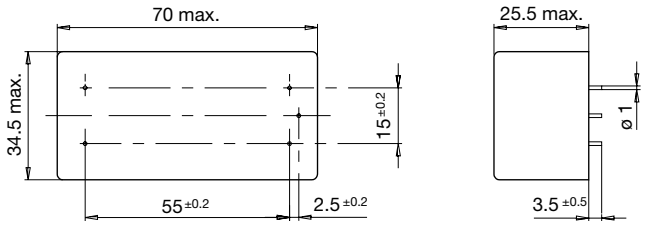
Compliances

The product complies with following Guide Lines

Identification	Details	Initiator	Description
CE	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.
UKCA	UKCA declaration of conformity	SCHURTER AG	The UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008.
RoHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
	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.
	Medical Equipment	SCHURTER AG	Suitable for use in medical equipment according to IEC/UL 60601-1

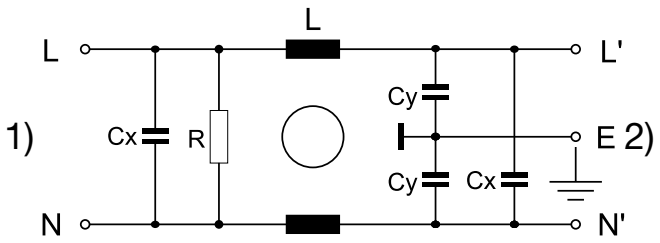
Dimension [mm]

Case 72



Diagrams

Standard version



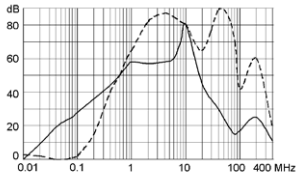
1) Line
2) Load

Attenuation Loss

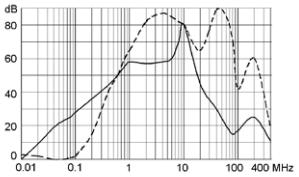
- - - - 50Ω differential mode _____ 50Ω common mode

Standard version

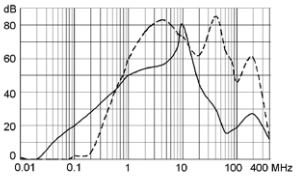
2 A



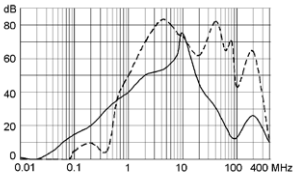
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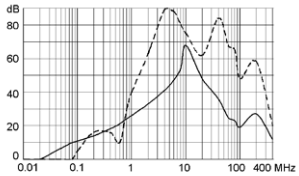
6 A



10 A

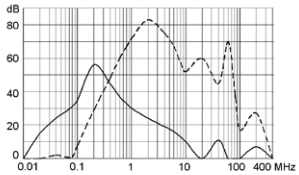


16 A

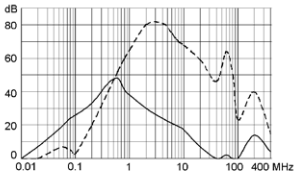


Medical version (M5)

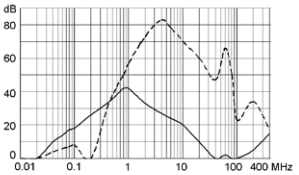
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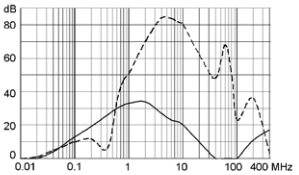
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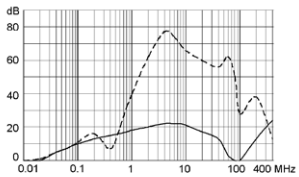
6 A



10 A

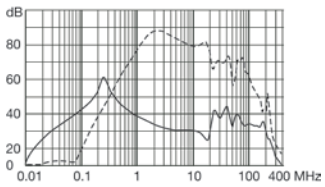


16 A

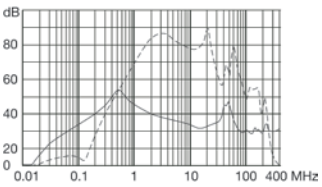


Medical version (M80)

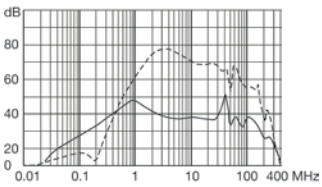
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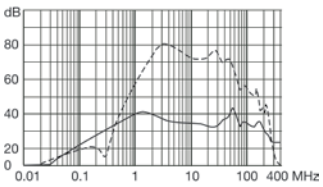
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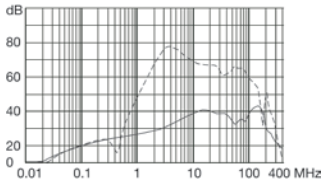
6 A



10 A



16 A



All Variants

Rated Current [A]	Filter-Type	L [mH]	Cx (X2) [nF]	Cy (Y2) [nF]	R [MΩ]	Weight [g]	Housing	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

15.09.2021

The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments. Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability and test each product selected for their own applications.