Filter for Backpack Mounting to KP01

KP01 Base Module
(not enclosed)

See below:
Approvals and Compliances

Description
- Component :
  Snap-in version from rear-side
- 1 Function :
  Line filter in standard and medical version
- For PCB mounting
- Only in combination with base-module type KP01

Characteristics
- Line filter for "backpack" mounting for modules type KP01 (snaps onto rear of KP01)
- Electrical connection done on the PCB
- Suitable for use in equipment according to IEC/UL 60950
  Suitable for use in medical equipment according to IEC/UL 60601-1

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

Technical 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 < 0.5 mA (250 V / 60 Hz) medical < 5 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 Temperature	-25 °C to 70 °C
Climatic Category	25/085/21 acc. to IEC 60068-1
IP-Protection	from front side IP 40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	For PCB mounting
Material: Housing	Thermoplastic, black, UL 94V-0

Line Filter	Standard and Medical Version, IEC 60939, UL 1283, CSA C22.2 no. 8 Technical Details
MTBF	> 2'600'000 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 134485 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: KPF

Approval Logo	Certificates	Certification Body	Description
(VDE logo)	VDE Approvals	VDE	VDE Certificate Number: 104869
(cULus logo)	UL Approvals	UL	UL File Number: E72928

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
IEC	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
IEC	Designed according to	IEC 61058-1	Switches for appliances. Part 1. General requirements
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
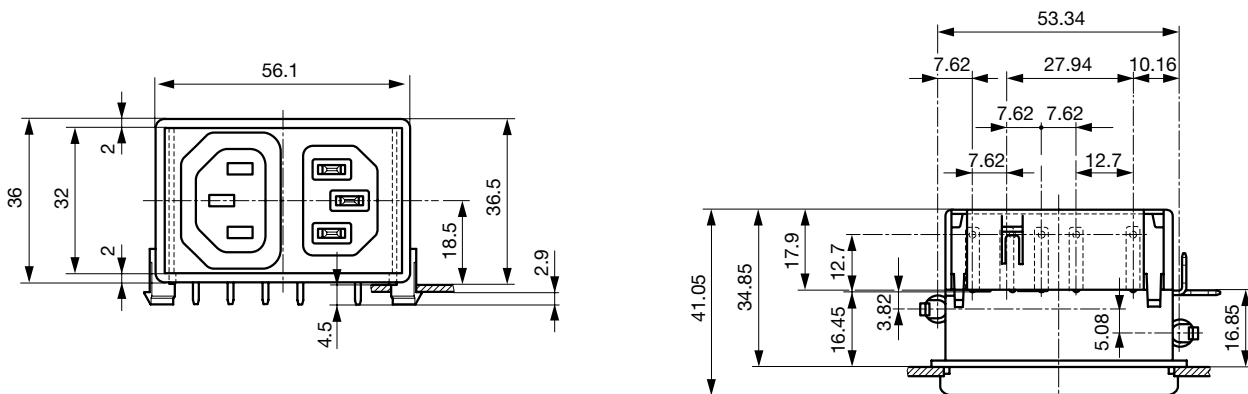
Application standards where the product can be used

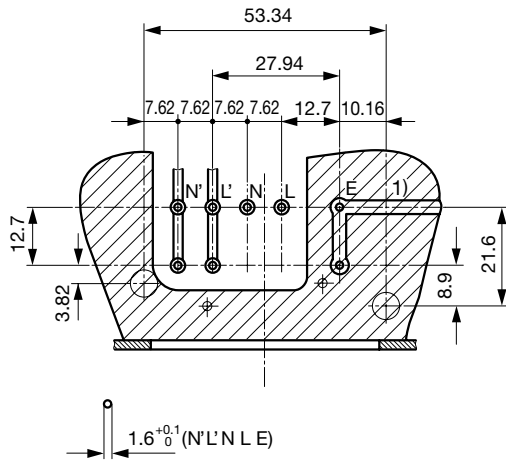| Organization	Design	Standard	Description
IEC	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.
IEC	Designed for applications acc.	IEC 60601-1	Medical electrical equipment - Part 1: General requirements for basic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

Compliances

The product complies with following Guide Lines

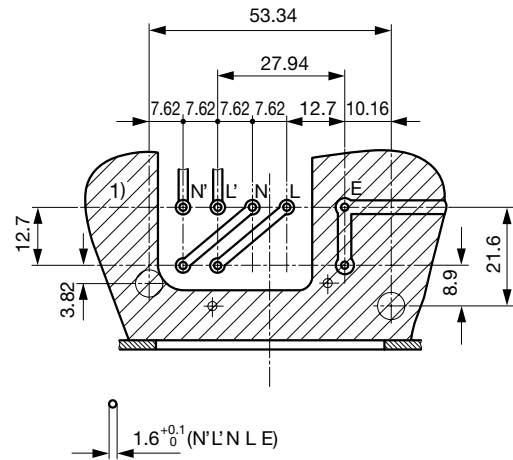| Identification	Details	Initiator	Description
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
RoHS COMPLIANT	RoHS	SCHURTER AG	EU Directive RoHS 2011/65/EU
China RoHS	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]

Drilling diagram
Layout to diagram A

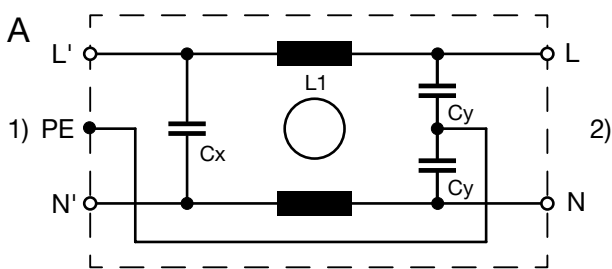1) Minimum ground plane

Drilling diagram
Layout to diagram B

1) Optimal ground plane

Technical Data of Filter-Components

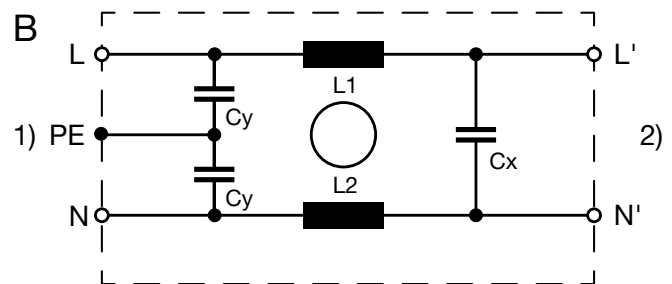| Rated Current [A]	Filter-Type	Inductances L [mH]	Capacitance CX [nF]	Capacitance CY [nF]	R [MΩ]
1	Standard Version	2 x 10	100	2.2	-
2	Standard Version	2 x 4	100	2.2	-
4	Standard Version	2 x 1.6	100	2.2	-
6	Standard Version	2 x 1	100	2.2	-
8	Standard Version	2 x 0.6	100	2.2	-
10	Standard Version	2 x 0.4	100	2.2	-
1	Medical Version (M5)	2 x 10	100	-	1
2	Medical Version (M5)	2 x 4	100	-	1
4	Medical Version (M5)	2 x 1.6	100	-	1
6	Medical Version (M5)	2 x 1	100	-	1
8	Medical Version (M5)	2 x 0.6	100	-	1
10	Medical Version (M5)	2 x 0.4	100	-	1

Diagrams

Standard line filter

1) Line
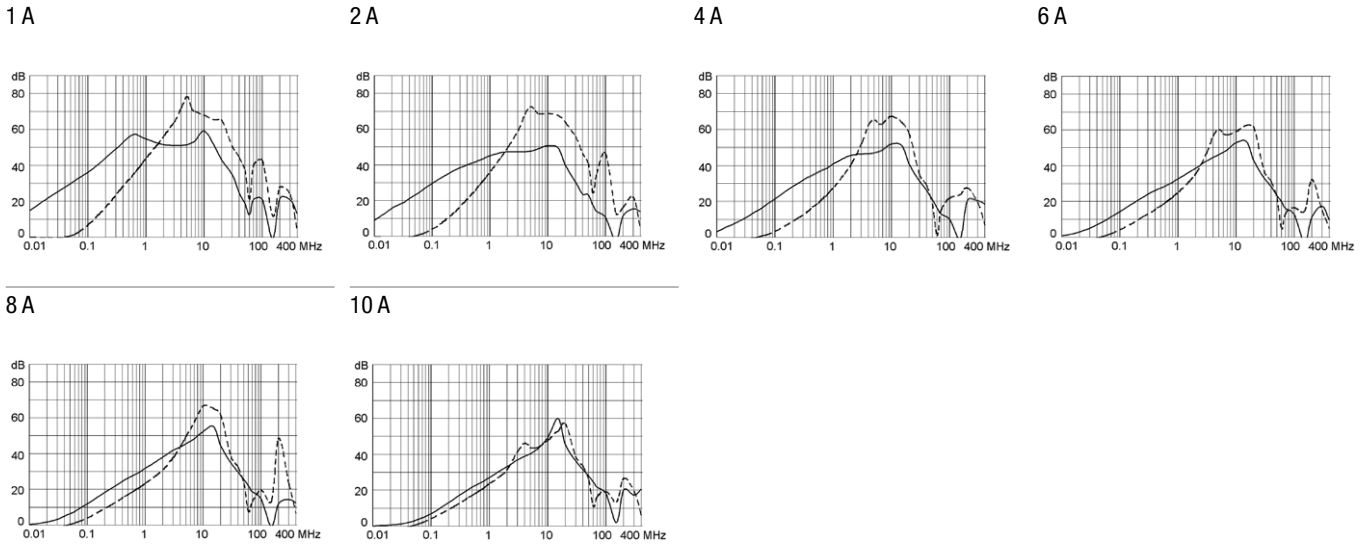2) Load
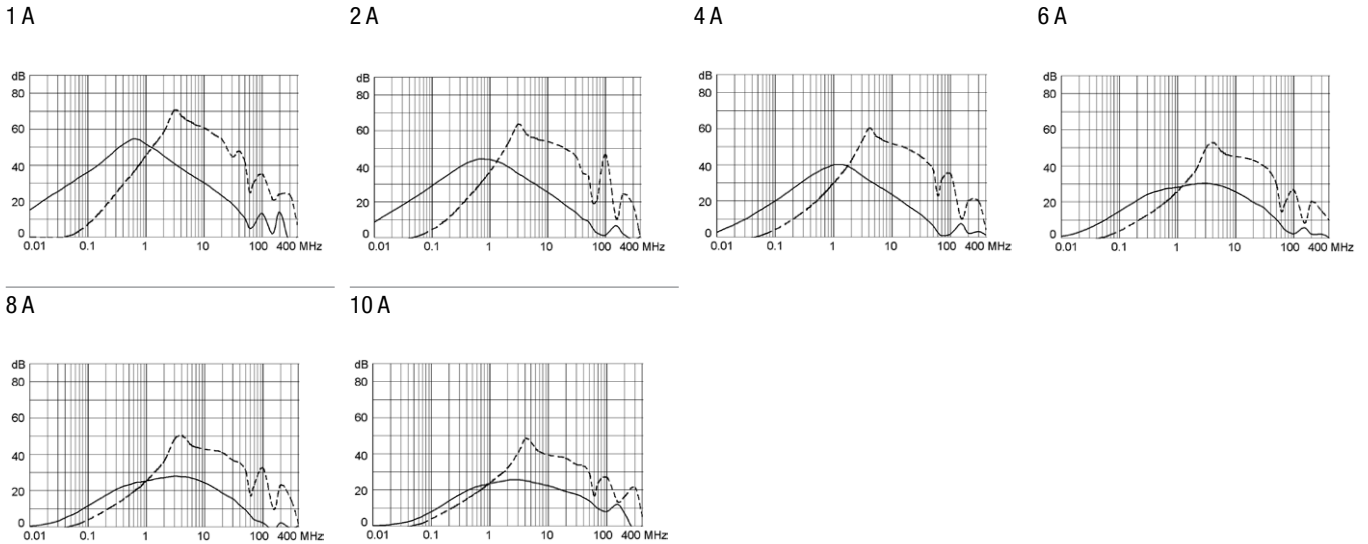
EMI filtering of equipment emissions

1) Line
2) Load

Attenuation Loss

Standard version

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

1 A	2 A	4 A	6 A

8 A	10 A

Medical version (M5)

1 A	2 A	4 A	6 A

8 A	10 A

All Variants

Rated Current [A]	Filter-Type	Order Number
1	Standard Version	KPF1.1
2	Standard Version	KPF2.1
4	Standard Version	KPF4.1
6	Standard Version	KPF6.1
8	Standard Version	KPF8.1
10	Standard Version	KPF0.1
1	Medical Version (M5)	KPF1.3
2	Medical Version (M5)	KPF2.3
4	Medical Version (M5)	KPF4.3
6	Medical Version (M5)	KPF6.3
8	Medical Version (M5)	KPF8.3
10	Medical Version (M5)	KPF0.3

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

Packaging unit   50 Pcs

18.12.2018

Mouser Electronics

Authorized Distributor

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