IEC Appliance Inlet C8 with Filter, Front Side Mounting

Snap-in mounting from front side

Screw-on mounting from front side

C8

70° C

See below:
Approvals and Compliances

Description

- Panel mount :
  Screw-on or snap-in mounting from front side
- 2 Functions :
  Appliance Inlet Protection class II , Line filter in standard and medical version
- Solder terminals or quick connect terminals

Characteristics

- Compact high performance filter
- Suitable for use in medical equipment according to IEC/UL 60601-1
  For applications according IEC/UL 62368-1 we recommend variants with bleed resistor

Other versions on request

- Standard version without X-capacitor
- Polarized C8 connector

References

Alternative: version without line filter 2576; 2578

Weblinks

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

Technical Data

Ratings IEC	0.5 - 2.5 A @ Ta 40 °C / 250 VAC; 50 Hz
Ratings UL/CSA	0.5 - 6 A @ Ta 40 °C / 250 VAC; 60 Hz
Dielectric Strength	> 1.7 kVDC between L-N > 4.5 kVDC between L/N-PE Test voltage (2 sec)
Impulse Withstand Voltage	> 2.5 kV between L-N
Allowable Operation Temperature	-25 °C to 85 °C
Climatic Category	25/085/21 acc. to IEC 60068-1
IP-Protection	from front side IP40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class II acc. to IEC 61140
Terminal	Solder pin or quick connect terminals 6.3 x 0.8 or 4.8 x 0.8 mm
Panel Thickness S	Screw Mounting screw torque max 0.5 Nm Snap-in 1 mm to 2.5 mm
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance inlet/-outlet	C8 acc. to IEC 60320-1 UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 2.5 A, Protection Class II
Line Filter	Standard and Medical Version, IEC 60939, UL 1283, CSA C22.2 no. 8 Technical Details
MTBF	> 6'700'000 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: 5008

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	Certificate Number: 40029278
	UL Approvals	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	IEC 60127-6	Miniature fuses. Part 6. Fuse-holders for miniature fuse-links
	Designed according to	IEC 61058-1	Switches for appliances. Part 1. General requirements
	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

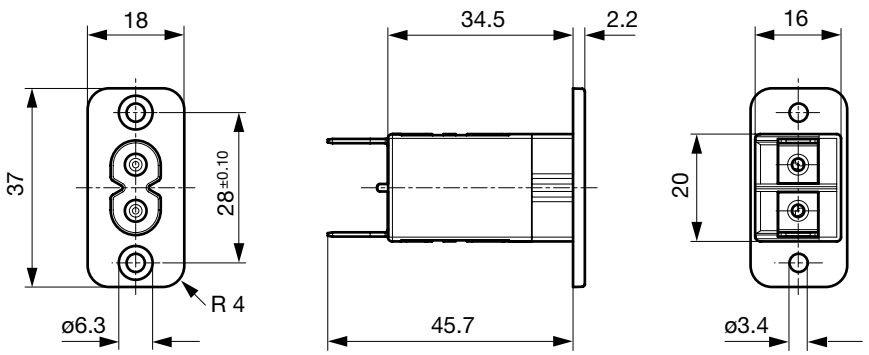
Organization	Design	Standard	Description
	Designed for applications acc.	IEC/UL 62368-1	IEC 62368-1 includes the basic requirements for safety of audio, video, information technology and office equipment.
	Designed for applications acc.	IEC 60601-1	Medical electrical equipment - Part 1: General requirements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

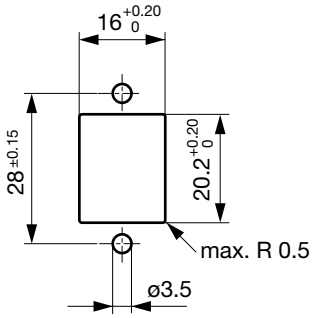
Compliances

The product complies with following Guide Lines

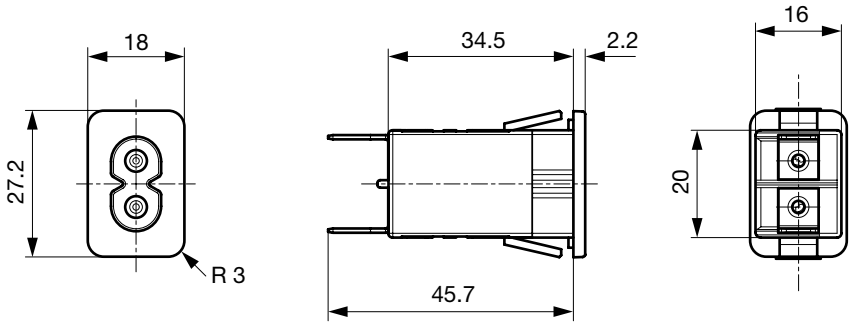
Identification	Details	Initiator	Description
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
RoHS COMPLIANT	RoHS	SCHURTER AG	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 Technology	SCHURTER AG	Suitable for use in medical equipment according to IEC/UL 60601-1

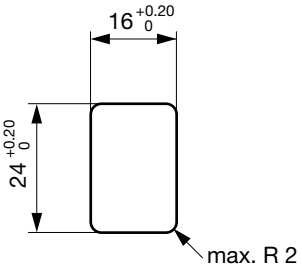
Dimension [mm]
Screw-on mounting from front side





Snap-in mounting from front side



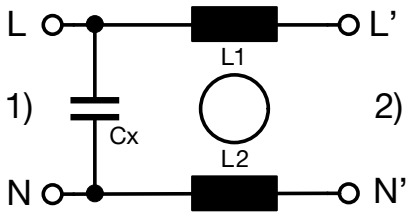


Technical Data of Filter-Components

Rated Current [A]	Filter-Type	Inductances L [mH]	Capacitance CX [nF]	Capacitance CY [nF]	R [MΩ]
0.5	Standard version	2 x 18	100	-	-
1	Standard version	2 x 8	-	-	-
1	Standard version	2 x 8	100	-	-
2.5	Standard version	2 x 1.2	100	-	-
4	Standard version	2 x 0.8	100	-	-
6	Standard version	2 x 0.3	100	-	-
0.5	Medical Version (M5)	2 x 18	100	-	1
1	Medical Version (M5)	2 x 8	100	-	1
2.5	Medical Version (M5)	2 x 1.2	100	-	1
4	Medical Version (M5)	2 x 0.8	100	-	1
6	Medical Version (M5)	2 x 0.3	100	-	1

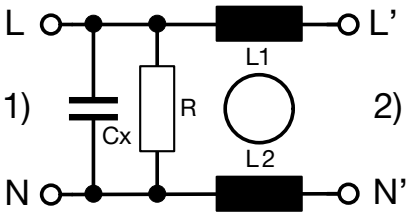
Diagrams

Standard version



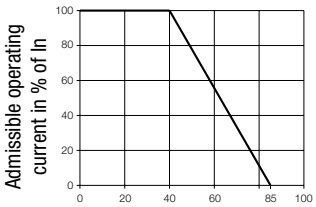
1) Line
2) Load

Medical Version (M5)



1) Line
2) Load

Derating Curves

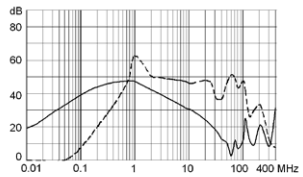


Attenuation Loss

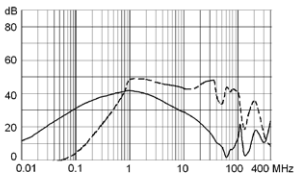
- - - - 50Ω differential mode _____ 50Ω common mode

Standard version

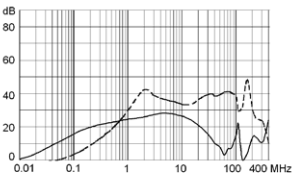
0.5 A



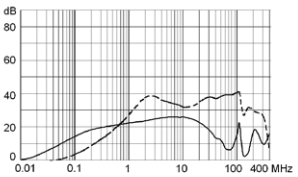
1 A



2.5 A



4 A



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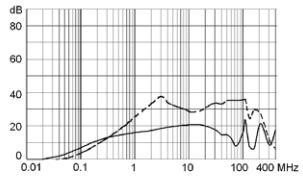
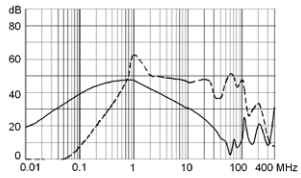
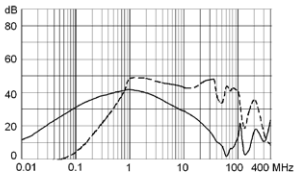


Medical version (M5)

0.5 A



1 A



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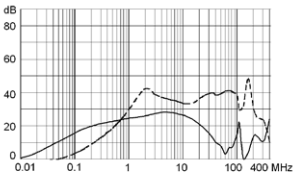
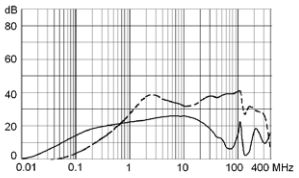
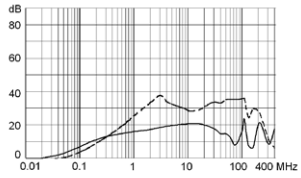


4 A



6 A



All Variants

Rated Current [A]	Filter-Type	Mounting	Terminal	Order Number
0.5	Standard version	Snap-in 1.0mm	Quick connect terminal 4.8 x 0.8 mm	5008.1010
0.5	Standard version	Snap-in 1.5mm	Quick connect terminal 4.8 x 0.8 mm	5008.2010
1	Standard version	Snap-in 1.5mm	Solder terminal	5008.2021
1	Standard version	Snap-in 1.5mm	Quick connect terminal 6.3 x 0.8 mm	5008.2001
1	Standard version	Snap-in 1.5mm	Quick connect terminal 4.8 x 0.8 mm	5008.2211
1	Standard version	Snap-in 2.0mm	Quick connect terminal 4.8 x 0.8 mm	5008.3011
2.5	Standard version	Screw	Solder terminal	5008.0022
2.5	Standard version	Screw	Quick connect terminal 6.3 x 0.8 mm	5008.0002
2.5	Standard version	Screw	Quick connect terminal 4.8 x 0.8 mm	5008.0012
2.5	Standard version	Snap-in 1.0mm	Quick connect terminal 4.8 x 0.8 mm	5008.1012
2.5	Standard version	Snap-in 1.5mm	Solder terminal	5008.2022
2.5	Standard version	Snap-in 1.5mm	Quick connect terminal 4.8 x 0.8 mm	5008.2012
2.5	Standard version	Snap-in 2.0mm	Solder terminal	5008.3022
2.5	Standard version	Snap-in 2.0mm	Quick connect terminal 6.3 x 0.8 mm	5008.3002
4	Standard version	Snap-in 1.5mm	Quick connect terminal 4.8 x 0.8 mm	5008.2014
6	Standard version	Screw	Quick connect terminal 6.3 x 0.8 mm	5008.0006
6	Standard version	Snap-in 1.0mm	Quick connect terminal 4.8 x 0.8 mm	5008.1016
6	Standard version	Snap-in 1.5mm	Quick connect terminal 4.8 x 0.8 mm	5008.2016
0.5	Medical Version (M5)	Snap-in 1.0mm	Quick connect terminal 4.8 x 0.8 mm	5008.1110
1	Medical Version (M5)	Screw	Quick connect terminal 4.8 x 0.8 mm	5008.0111
1	Medical Version (M5)	Snap-in 1.0mm	Quick connect terminal 4.8 x 0.8 mm	5008.1111
1	Medical Version (M5)	Snap-in 2.0mm	Quick connect terminal 4.8 x 0.8 mm	5008.3111
2.5	Medical Version (M5)	Snap-in 1.0mm	Quick connect terminal 4.8 x 0.8 mm	5008.1112
2.5	Medical Version (M5)	Snap-in 2.0mm	Quick connect terminal 6.3 x 0.8 mm	5008.3102
4	Medical Version (M5)	Snap-in 1.0mm	Quick connect terminal 4.8 x 0.8 mm	5008.1114
4	Medical Version (M5)	Snap-in 1.5mm	Quick connect terminal 4.8 x 0.8 mm	5008.2114
6	Medical Version (M5)	Snap-in 1.0mm	Quick connect terminal 4.8 x 0.8 mm	5008.1116
6	Medical Version (M5)	Snap-in 1.5mm	Quick connect terminal 4.8 x 0.8 mm	5008.2116

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

Packaging unit 20 Pcs

Mating Outlets/Connectors

Category / Description

Power Cord Overview complete

Cord Sets 2.5 A, IEC Connector, Black, 2.0 m, H03VVH2-F 2x0,75mm2, Connector IEC C7, 001500 mm, H03VVH2-F2G0.75, black	6013.0474
Cord Sets 2.5 A, IEC Connector, Black, 4.0 m, H03VVH2-F 2x0,75mm2, Connector IEC C7, 001500 mm, H05VVH2-F2G0.75, black	6013.0478

Power Cord further types to 5008

Power Supply Cord Overview complete

Cord Sets 2.5 A, North America, Black, 2.0 m, SVT 2x18AWG, Connector IEC C7, 002500 mm, NISPT-2, black	6010.5274
Cord Sets 2.5 A, North America, Black, 4.0 m, SVT 2x18AWG, Connector IEC C7, 002500 mm, NISPT-2, black	6010.5278

Power Supply Cord further types to 5008

12.05.2020

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.