

IEC Appliance Inlet C14 with Filter, Fuseholder 1- or 2-pole, for PCB Mounting



C14



70° C

Description

- Panel mount : Screw-on mounting on PCB , rear-side
- 3 Functions : Appliance Inlet , Fuseholder for fuse-links 5 x 20 mm , Line filter in standard and medical version
- V-Lock notch standard
- PCB terminals

See below:
Approvals and Compliances

Characteristics

- Ultra-compact design
- All single elements are already wired
- For added safety "Extra-Safe" fuse drawers are available
- For applications according IEC/UL 62368-1 we recommend variants with bleed resistor
- Suitable for use in medical equipment according to IEC/UL 60601-1 (1 MOOP, 1 MOPP)

Other versions on request

- Fixing on PCB with self-tapping screws 3 mm or pre-inserted nuts M3
- Fuse drawer 1-pole, plus spare fuse case
- Fuse drawer 2-pole, with shorting bar
- Medical version M80, 220 nF X capacitors
- Class X1- and Y1-capacitors for enhanced withstand voltage
- Protection class II, 70°C

References

Alternative: version for panel mounting [KFA](#)

Weblinks

[pdf data sheet](#), [html datasheet](#), [General Product Information](#), [Approvals](#), [Distributor-Stock-Check](#), [Accessories](#), [Detailed request for product](#)

Technical Data

Ratings IEC	1 - 10 A @ Ta 40 °C / 250VAC; 50Hz
Ratings UL/CSA	1 - 10 A @ Ta 40 °C / 250VAC; 50/60Hz ¹⁾
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 (1 min/50Hz)
Allowable Operation Temperature	-25 °C to 85 °C
Climatic Category	25/085/21 acc. to IEC 60068-1
IP-Protection	front side IP40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	For PCB mounting : Additional for ground terminal: Quick connect terminals 6.3 x 0.8 mm angled to pin axis
Panel Thickness S	Screw-on mounting: max 3mm Mounting screw torque max 0.5 Nm
Material	Thermoplastic, black, UL 94V-0

¹⁾ UL approvals: 1-pole versions up to 10 A, 2-pole versions up to 8 A

Appliance inlet/-outlet	C14 acc. to IEC 60320-1 UL 498 CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection Class I
Fuseholder	1-/2-pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 2W (1 pole)/ 1.4W (2-pole) per pole
Power Acceptance @ Ta > 23°C	Admissible power acceptance at higher ambient temperature see derating curves
Line Filter	Standard and Medical Version, IEC 60939, UL 60939-3, CSA C22.2 no. 8
MTBF	Technical Details > 2'000'000h 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: DA22

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	Certificate Number: 40001522
	UL Approvals	UL	UR File Number: E495089

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 60939-3	Passive filters for suppressing electromagnetic interference
	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

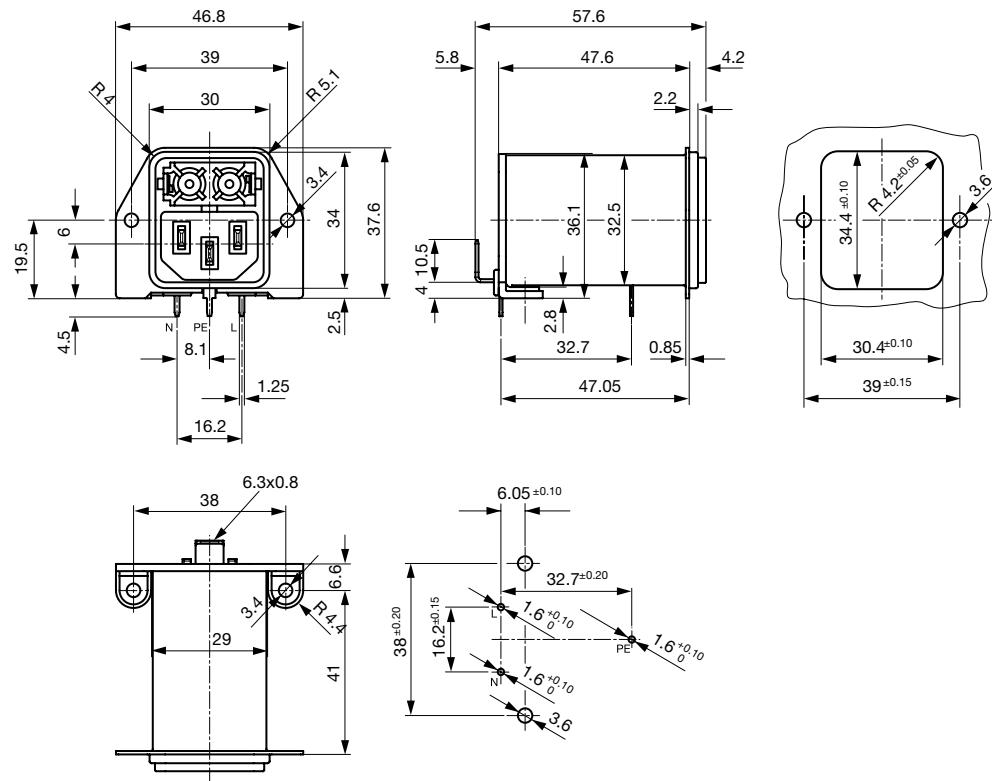
Organization	Design	Standard	Description
	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements
	Suitable for applications acc.	IEC 60601-1	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance
	Suitable for applications acc.	IEC 60335-1	Safety of electrical appliances for household and similar purposes. Meets the requirements for appliances in unattended use. This includes the enhanced requirements of glow wire tests acc. to IEC 60695-2-11 or -12 & -13.

Compliances

The product complies with following Guide Lines

Identification	Details	Initiator	Description
	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 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	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	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.
		SCHURTER AG	V-Lock system are based on a matching plug-dose combination. The connector is equipped with a notch intended for use with the latching cordset. The cord latching system prevents against accidental removal of the cordset.
	White Paper Glow wire test	SCHURTER AG	Meets the requirements of IEC 60335-1 for appliances in unattended use. This includes the enhanced requirements of glow wire tests acc. to IEC 60695-2-11 or -12 &-13.
	Medical Equipment	SCHURTER AG	Suitable for use in medical equipment according to IEC/UL 60601-1 (1 MOOP, 1 MOPP)

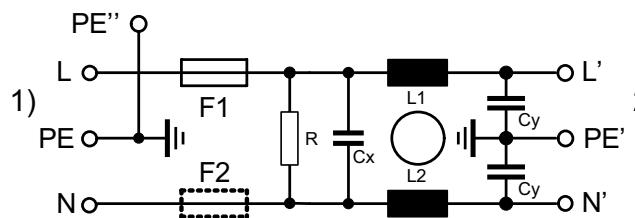
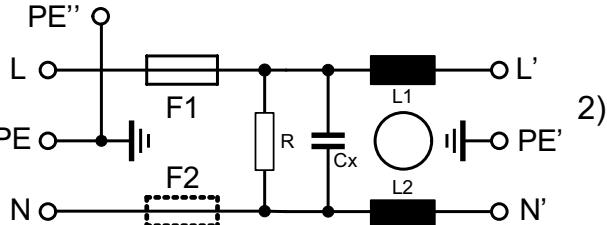
Dimension [mm]



Technical Data of Filter-Components

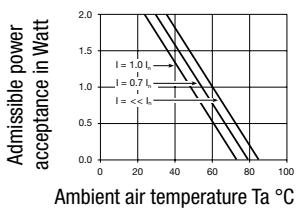
Rated Current [A]	Filter-Type	Inductances L [mH]	Capacitance CX [nF]	Capacitance CY [nF]	R [MΩ]
1	Standard Version with Bleed Resistor	2 x 10	100	2.2	1
2	Standard Version with Bleed Resistor	2 x 4	100	2.2	1
4	Standard Version with Bleed Resistor	2 x 1.5	100	2.2	1
6	Standard Version with Bleed Resistor	2 x 0.8	100	2.2	1
8	Standard Version with Bleed Resistor	2 x 0.6	100	2.2	1
10	Standard Version with Bleed Resistor	2 x 0.3	100	2.2	1
1	Medical Version (M5)	2 x 10	100	-	1
2	Medical Version (M5)	2 x 4	100	-	1
4	Medical Version (M5)	2 x 1.5	100	-	1
6	Medical Version (M5)	2 x 0.8	100	-	1
8	Medical Version (M5)	2 x 0.6	100	-	1
10	Medical Version (M5)	2 x 0.3	100	-	1

Diagrams

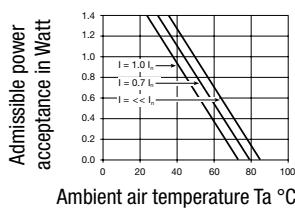
Standard Version with Bleed Resistor
1-1/2-pole1) Line
2) LoadMedical Version (M5)
1-1/2-pole1) Line
2) Load

Derating Curves

1-pole



2-pole

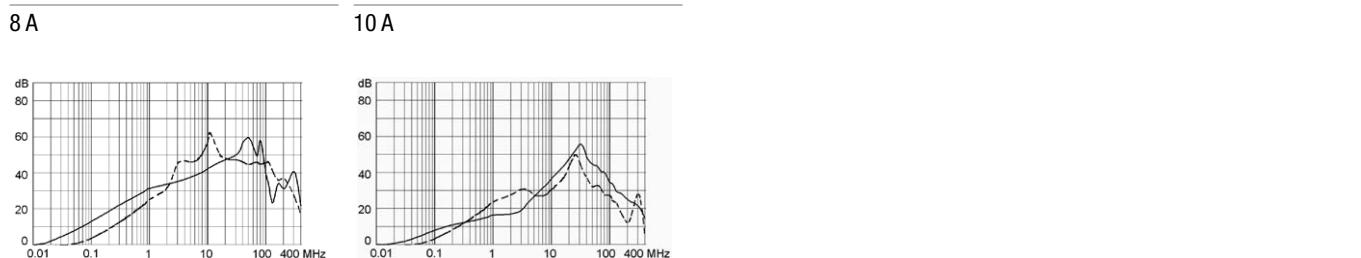
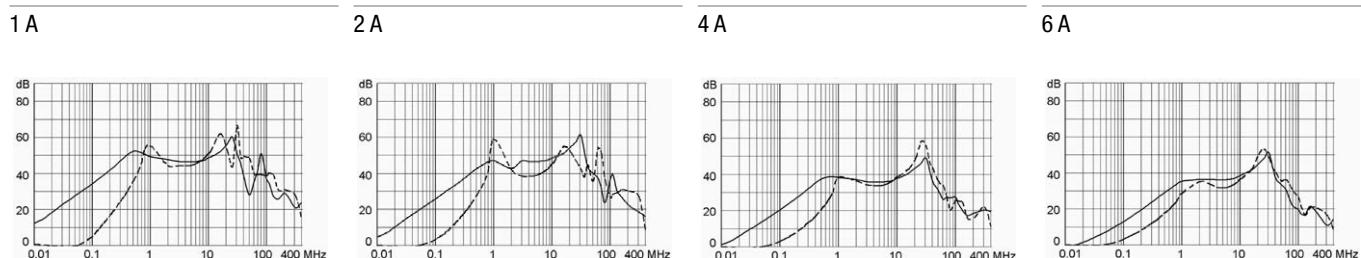


Ambient air temperature Ta °C

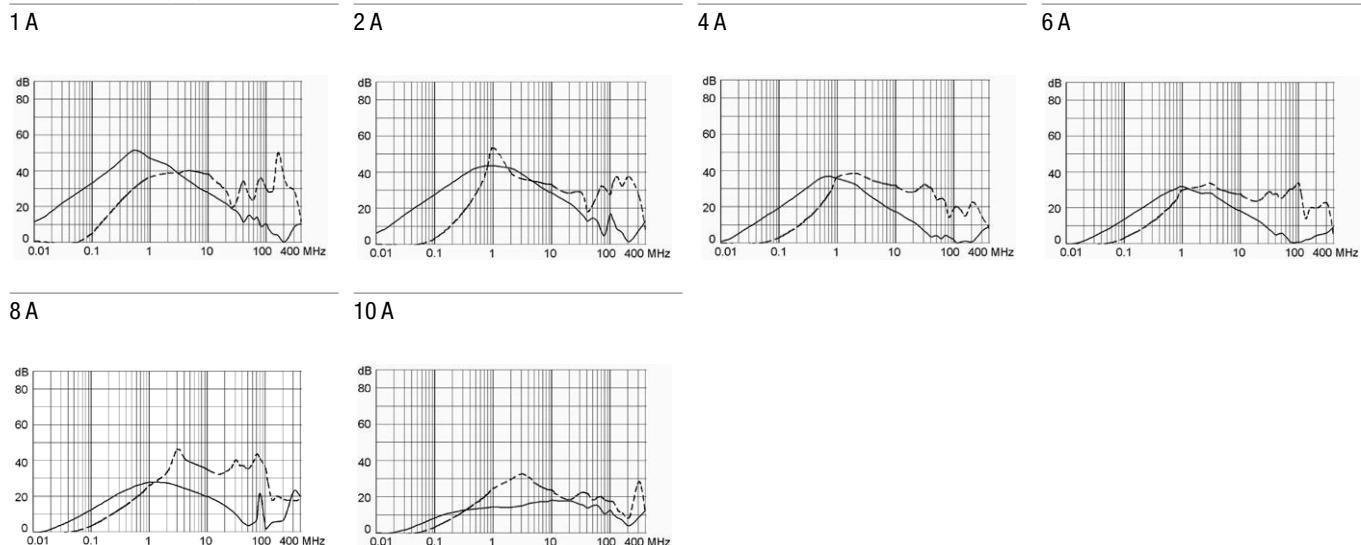
Attenuation Loss

Standard version

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



Medical version (M5)



Variants

Rated current	Filter-Type	Fuseholder	Comment	Order Number
1	Standard Version with Bleed Resistor	1-pole	-	DA22.1111.11
2	Standard Version with Bleed Resistor	1-pole	-	DA22.2111.11
4	Standard Version with Bleed Resistor	1-pole	-	DA22.4111.11
6	Standard Version with Bleed Resistor	1-pole	-	DA22.6111.11
8	Standard Version with Bleed Resistor	1-pole	-	DA22.8111.11
10	Standard Version with Bleed Resistor	1-pole	-	DA22.9111.11
1	Standard Version with Bleed Resistor	2-pole	-	DA22.1121.11
2	Standard Version with Bleed Resistor	2-pole	-	DA22.2121.11
4	Standard Version with Bleed Resistor	2-pole	-	DA22.4121.11
6	Standard Version with Bleed Resistor	2-pole	-	DA22.6121.11
8	Standard Version with Bleed Resistor	2-pole	-	DA22.8121.11
10	Standard Version with Bleed Resistor	2-pole	-	DA22.9121.11
1	Medical Version (M5)	2-pole	-	DA22.1321.11
2	Medical Version (M5)	2-pole	-	DA22.2321.11

Rated current	Filter-Type	Fuseholder	Comment	Order Number
4	Medical Version (M5)	2-pole	-	DA22.4321.11
6	Medical Version (M5)	2-pole	-	DA22.6321.11
8	Medical Version (M5)	2-pole	-	DA22.8321.11
10	Medical Version (M5)	2-pole	-	DA22.9321.11

Availability for all products can be searched real-time: <https://www.schurter.com/en/info-center/support-tools/stock-check-distributors>

The fuse drawer is not included and must be ordered separately (see required accessory).

Packaging unit	20 Pcs
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Required Accessory

Description	
Fusedrawer_2 Fusedrawer for Fuse Links 5x20 mm, with or without Voltage Selector Insert	
	Fingergrip, 2-pole 4301.1401
	Extra-Safe, 2-pole 4301.1403
	Fingergrip, 1-pole 4301.1405
	Extra-Safe, 1-pole 4301.1407
...	

Accessories

	Cord_retaining_kits Cord retaining strain relief	Flat head, H 4700.0008
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Mating Outlets/Connectors

Category / Description	
Appliance Outlet Overview complete	
	4787, Mounting: Screw-on mounting, Appliance Outlet: IEC Solder terminals, 10 A, Suitable for appliances with protection class I 4787
	4788, Mounting: Snap-in version, Appliance Outlet: IEC Solder / Quick Connect, 10 A, Suitable for appliances with protection class I 4788
	IEC Appliance Outlet F or H, Screw-on Mounting, Front Side, Solder, PCB or Quick-connect Terminal 5091

Connector Overview complete	
	4782 Mounting: Power Cord, 3 x 1 mm ² / 3 x 18 AWG, Cable, Connector: IEC C13 4782
	4785 Mounting: Power Cord, 3 x 1 mm ² / 3 x 18 AWG, Cable, Connector: IEC C13 4785
	4300-06 Mounting: Power Cord, 3 x 1 mm ² / 3 x 18 AWG, Cable, Connector: IEC C13 4300-06
	4781 Mounting: Power Cord, Cable, Connector: IEC C15 4781
	4784 Mounting: Power Cord, 3 x 1 mm ² / 3 x 18 AWG, Cable, Connector: IEC C15 4784

Mating Outlets/Connectors shuttered



Connector Overview complete

4783 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C13

4783



Power Cord Overview complete

VAC13KS, Overview, V-Lock cord retaining, diverse Connector IEC C13, diverse, black

VAC13KS