

IEC Appliance Inlet C14 with High Frequency Filter, X2Y Technology, ECO design, Front- or Rear Side Mounting

Standard- or Medical-Filter



V-Lock

new



Screw-on or rivet mounting
from front or rear side

Screw-on mounting from rear side
(integrated thread)

C14



70° C

Description

- Panel Mount:
- Screw-on version from front or rear side
- 2 Functions:
- Appliance Inlet, High frequency line filter as standard, industrial and medical version, Protection class I
- Quick connect terminals 6.3 x 0.8 mm

Approvals

- VDE Certificate Number: 40023426
- UL File Number: E72928



Characteristics

- Very compact filter for frequencies up to 1 GHz
- Patented X2Y Technologie for broadband high frequency filtering
- Double shielding for best filter performance
- One single filter design for the given current range
- Designed for standard, industrial and medical applications
- Suitable for assembly in metal plated plastic housings
- Suitable for use in equipment according to IEC 60950/60601
- Suitable for use in medical equipment according to IEC/UL 60601-1

Other versions on request

- Solder terminals

Weblinks

[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [Mating Connectors](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [Accessories](#)

Newly available variants corresponding to V-Lock mating cordset. 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.

Technical Data

Ratings IEC	10A @ Ta 40 °C / 250VAC; 50Hz
Ratings UL/CSA	15A @ Ta 40 °C / 250VAC; 60Hz
Leakage Current	standard < 0.5mA (250V / 60Hz) medical < 43/80 µA (250 V / 60 Hz)
Dielectric Strength	> 1.7kVDC between L-N > 2.7kVDC between L/N-PE Test voltage (2 sec)
Allowable Operation Temp.	-25 °C to 85 °C
Climatic Category	25/085/21 acc. to IEC 60068-1
Degree of Protection	from front side IP 40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
Terminal	Quick connect terminals 6.3 x 0.8 mm
Panel Thickness s	Screw: max 8mm Mounting screw torque max 0.5Nm
Material: Housing	Themoplast / steel tin-plated, black / metallic, UL 94V-0

Appliance-Inlet/-Outlet C14 acc. to IEC 60320,
UL 498, CSA C22.2 no. 42 (for cold
conditions) pin-temperature 70 °C, 10A,
Protection Class I

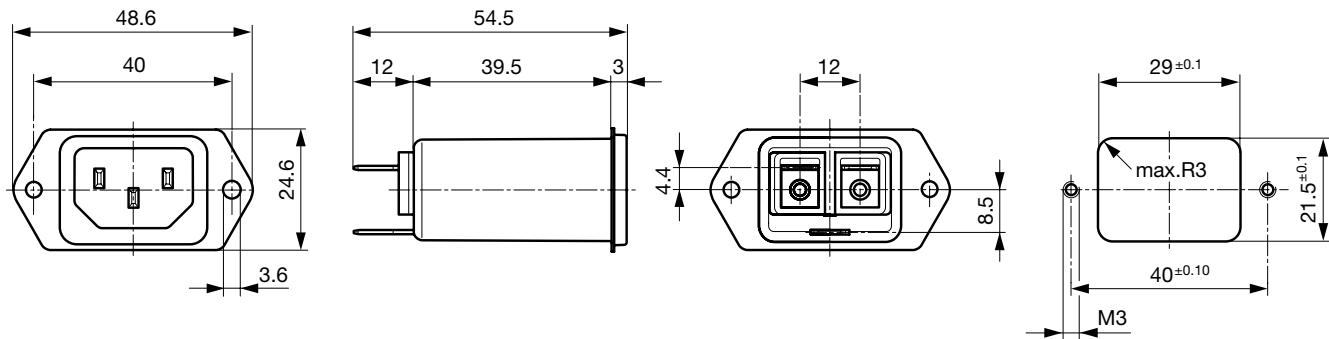
Line Filter Standard, medical and industrial ver-
sion, IEC 60939, UL 1283, CSA C22.2
no. 8

[Technical Details](#)

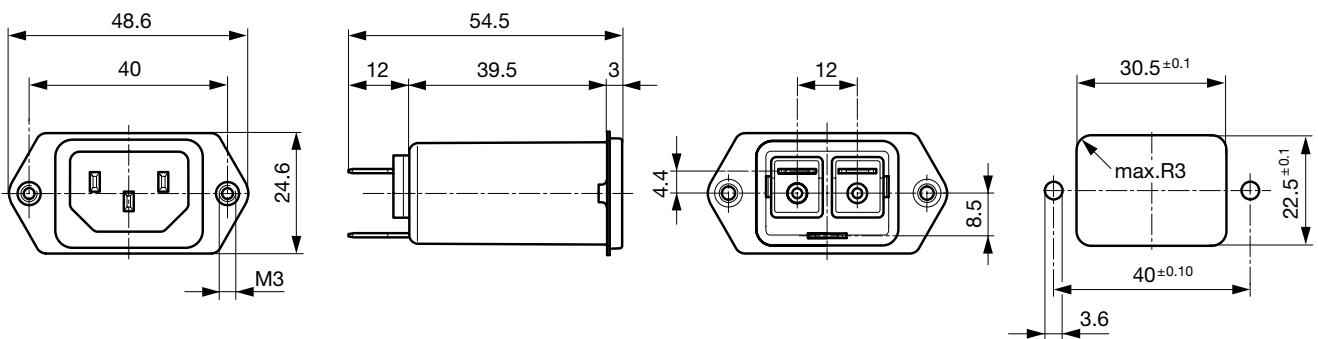
MTBF > 3'300'000 h acc. to MIL-HB-217 F

Dimension

Front or rear side mounting for screws with nuts or blind rivets (panel cutout for frontside mounting)



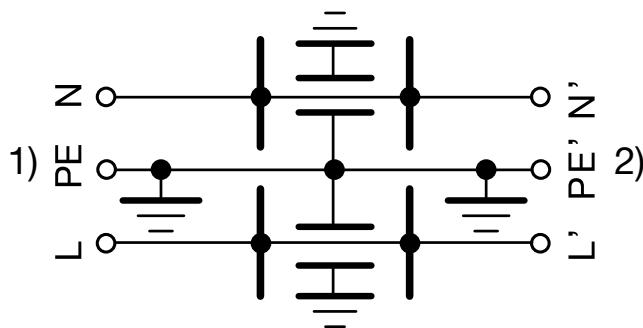
Rear side mounting with pre-formed, threaded holes for M3 screws (panel cutout for rear side mounting)

**Technical Data of Filter-Components**

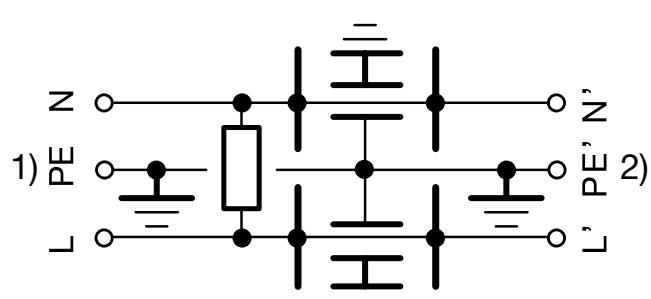
Rated Current [A]	Filter-Type	Capacitance CX [nF]	Capacitance CY [nF]	R [MΩ]
10	Standard Version	1.25	2.5	-
10	Standard Version with Bleed Resistor	1.25	2.5	1
10	Industrial Version	2.35	4.7	-
10	Medical Version (M80)	0.225	0.45	1

Diagrams

Standard and industrial version

1) Line
2) Load

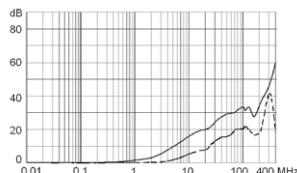
Medical M80 and standard version with bleed resistor

1) Line
2) Load

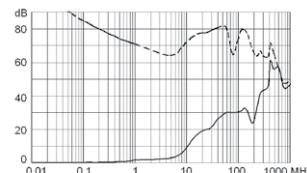
Attenuation Loss

Standard version

CISPR 17 Test Method



Alternate Test Method

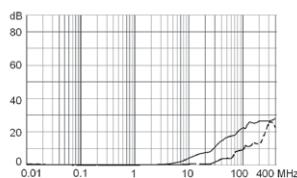


--- differential mode — common mode

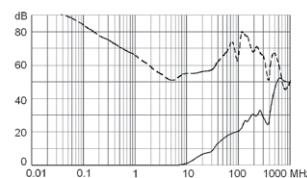
same attenuation loss with bleed resistor

Medical version (M80)

CISPR 17 Test Method

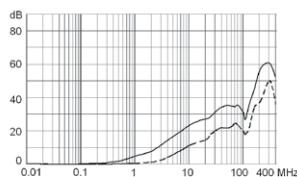


Alternate Test Method

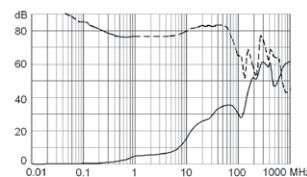


Industrial version

CISPR 17 Test Method



Alternate Test Method



Comment about alternate test method
see table of variants

All Variants

Rated Current IEC [A]	Rated Current UL [A]	Filter-Type	Panel mounting	Mounting side	Order Number
10	15	Standard Version	Screw-on/Rivet	Front-/Rear-Side	5150.0011.0
10	15	Standard Version	Screw	Rear Side	5150.0011.1
10	15	Standard Version with Bleed Resistor	Screw-on/Rivet	Front-/Rear-Side	5150.0021.0
10	15	Standard Version with Bleed Resistor	Screw	Rear Side	5150.0021.1
10	15	Industrial Version	Screw-on/Rivet	Front-/Rear-Side	5150.0041.0
10	15	Industrial Version	Screw	Rear Side	5150.0041.1
10	15	Medical Version (M80)	Screw-on/Rivet	Front-/Rear-Side	5150.0031.0
10	15	Medical Version (M80)	Screw	Rear Side	5150.0031.1

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

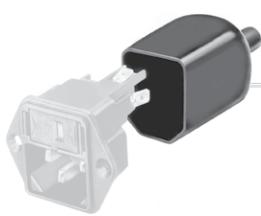
The Alternate Test Method allows the measurement in the GHz frequency range whereas the CISPR 17 method does not cover frequencies above 30MHz. The insertion loss is measured in a throughput method (common mode) and a cross coupled method (differential mode). The differential mode measurement of the alternate test method is not directly comparable to the conventional measurement acc. CISPR 17.

Further information on the X2Y filter technology and on the alternate insertion loss measurement method can be found under www.schurter.com/info_emc

Packaging unit 10 Pcs

Accessories

Description



Assorted Covers
Rear Cover



Cord retaining kits
Cord retaining strain relief

Mating Outlets/Connectors

Category / Description



Appliance Outlet Overview complete

IEC Appliance Outlet F, Screw-on Mounting, Front Side, Solder Terminal 4787

IEC Appliance Outlet F, Snap-in Mounting, Front Side, Solder or Quick-connect Terminal 4788

IEC Appliance Outlet F or H, Screw-on Mounting, Front Side, Solder, PCB or Quick-connect Terminal 5091

Appliance Outlet further types to 5150



Connector Overview complete

IEC Connector C15A, Rewireable, Straight 0102

IEC Connector C15A, Rewireable, Straight 0102-G

IEC Connector C15A, Rewireable, Angled 0112

IEC Connector C13, Rewireable, Angled 4012

IEC Connector C13, Rewireable, Straight 4022

Connector further types to 5150 ...

Mating Outlets/Connectors shuttered



Power Cord Overview complete

Overview Power Supply Cord with IEC Connector C13, V-Lock, straight VAC13KS

Power Cord further types to 5150