

Inlet with high frequency filter, X2Y technology, ECO design, front- or rear side mounting

Standard- or Medical-Filter



new

Screw-on or rivet mounting  
from front or rear sideScrew-on mounting from rear side (integrated  
thread)

C14



70° C

**Description**

- Panel Mount:  
Screw-on version from front or rear side
- 2 Functions:  
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 License Number: 40023426
- UL License 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
- For use in equipment acc. IEC 60950/60601

**Other versions on request**

- Solder terminals

**References**

[General Product Information](#)

**Weblinks**

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

**Technical Data**

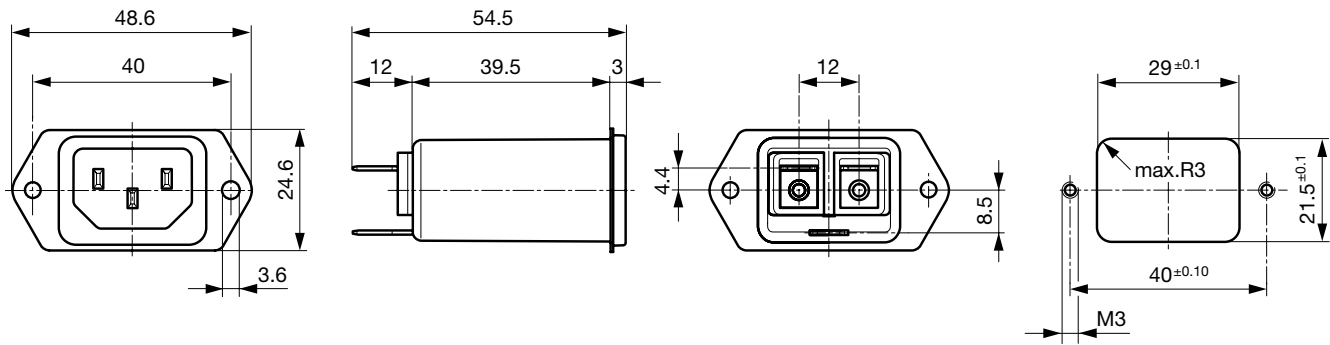
Ratings IEC	10A @ Ta 40 °C / 250 VAC; 50Hz
Ratings UL/CSA	15A @ Ta 40 °C / 250 VAC; 60Hz
Leakage Current	standard < 0.5 mA (250 V / 60Hz) medical < 80 µA (250 V / 60 Hz)
Dielectric Strength	> 1.7 kVDC between L-N > 2.7 kVDC between L/N-PE Test voltage (2 sec)
Allowable Operation Temp.	-25 °C to 85 °C
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-on: max 8 mm Mounting screw torque max 0.5 Nm
Material: Housing	Themoplast / steel tin-plated, black / metallic, UL 94V-0

Appliance-Inlet/-Outlet	C14 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10A, Protection class I
Line Filter	Standard, medical and industrial version, IEC 60939, IEC 60601-1, UL 1283, UL 544, CSA C22.2 no. 8 <a href="#">Technical details</a>
MTBF	> 3'300'000h acc. to MIL-HB-217 F

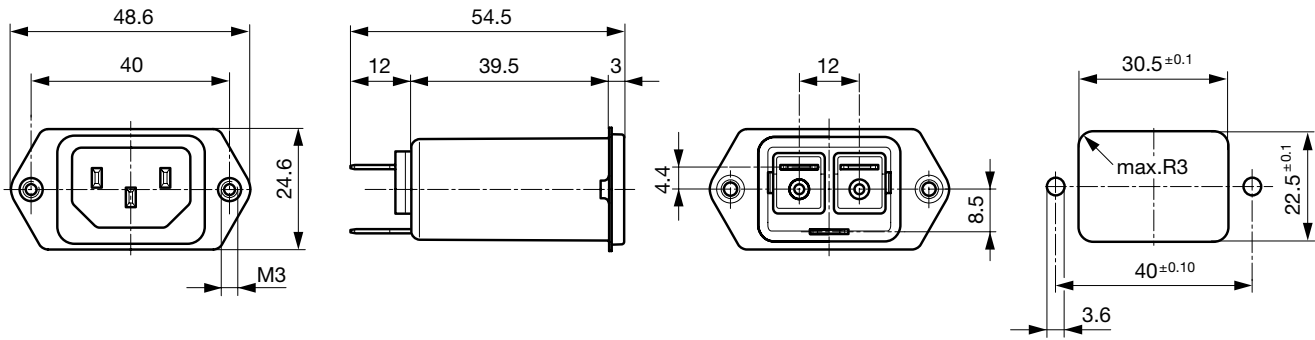
### Dimensions

Length |-----| 54.5 mm

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)



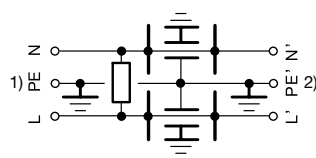
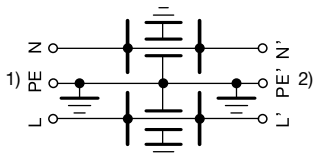
### Technical Data of Filter-Components

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

### Diagrams

Standard and industrial version

Medical M80 and standard version with bleed resistor



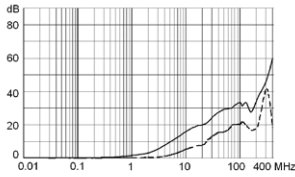
1) Line  
2) Load

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2) Load

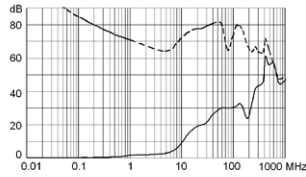
**Attenuation Loss**

--- differential mode    \_\_\_\_ common mode

Standard version  
CISPR 17 Test Method

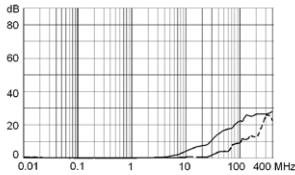


Alternate Test Method

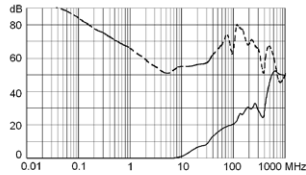


same attenuation loss with bleed resistor

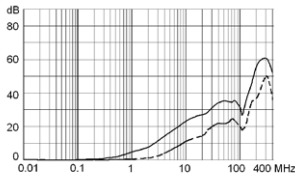
Medical version (M80)  
CISPR 17 Test Method



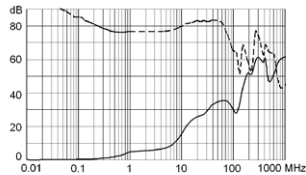
Alternate Test Method



Industrial Version  
CISPR 17 Test Method



Alternate Test Method



Comment about alternate test method  
see table of variants

**Variants**

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

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

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](http://www.schurter.com/info_emc)

**Packaging unit**      10 Pcs

## Accessory

## Description



Assorted Covers  
Rear Cover

0859.0048



Cord retaining kits  
Cord retaining strain relieve

Flat head, E

4700.0005

Flat head, G

4700.0007