

IEC Appliance Inlet C14 with Filter, "Lock and Shield" Mounting

Standard- or Medical-Filter



GRF4: with shield and line filter

**Description**

- Panel Mount:
Snap-in version from rear-side
- 3 Functions:
Appliance Inlet Protection class I, with EMC-shield, Line filter in standard and medical version

Approvals

- VDE Certificate Number: 102348
- UL File Number: E72928
- CSA File Number: 701867

Characteristics

- Time saving "Lock and Shield" snap-in design for rear-panel mounting
- All single elements are already wired
- Innovative EMC-shielding with flexible steel segments for an excellent contact to the panel
- Suitable for use in equipment according to IEC 60950

Other versions on request

- Panel thickness 1.2 mm and 2.0 mm

ReferencesAlternative: version without line filter [GRF2](#)

Alternative: Standard version

Weblinks

[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [Mating Connectors](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [CAD-Drawings](#), [Accessories](#), [Mounting instruction](#), [Detailed request for product](#)

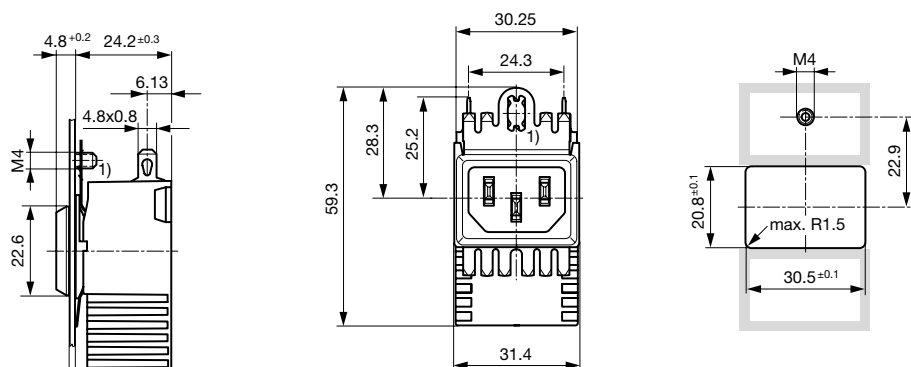
Technical Data

Ratings IEC	0.5 - 10A @ Ta 40 °C / 250VAC; 50Hz
Ratings UL/CSA	0.5 - 15A @ Ta 40 °C / 125VAC; 60Hz
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 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 4.8 x 0.8 mm
Panel Thickness s	Screw Mounting screw torque max 0.5 Nm Snap-in: 1.5 mm (other on request)
Material: Housing	Thermoplastic, black, 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 and Medical Version, IEC 60939, IEC 60601-1, UL 1283, UL 544, CSA C22.2 no. 8 Technical Details
MTBF	> 3'300'000 h acc. to MIL-HB-217 F

Dimensions

GRF4

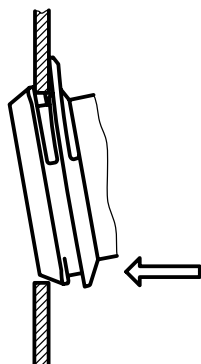


1) Terminal for earth screw M4

This area must be conductive for optimal shielding. Do not apply paint or coatings.

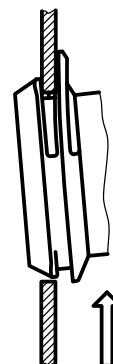
Mounting instructions

Step 1



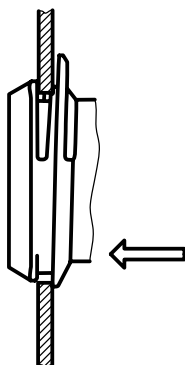
Place the socket in top edge of the panel cut-out.

Step 2



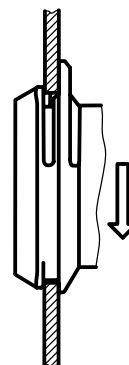
Push the socket upwards.

Step 3



Push the socket forward into the panel cut-out.

Step 4



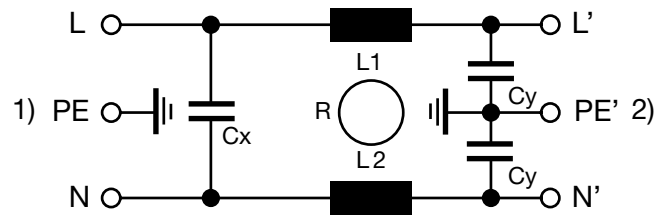
Release the socket. The component is self adjusting.

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 24	100	2.2	-
1	Standard Version	2 x 12	100	2.2	-
3	Standard Version	2 x 2.5	100	2.2	-
6	Standard Version	2 x 0.78	100	2.2	-
10	Standard Version	2 x 0.225	100	2.2	-
15	Standard Version	2 x 0.075	100	2.2	-
0.5	Medical Version (M5)	2 x 24	100	-	1
1	Medical Version (M5)	2 x 12	100	-	1
3	Medical Version (M5)	2 x 2.5	100	-	1
6	Medical Version (M5)	2 x 0.78	100	-	1
10	Medical Version (M5)	2 x 0.225	100	-	1
15	Medical Version (M5)	2 x 0.075	100	-	1

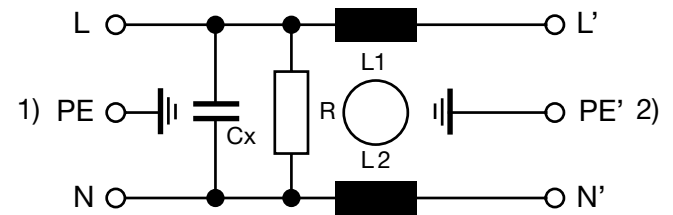
Diagrams

Standard version



1) Line
2) Load

Medical version

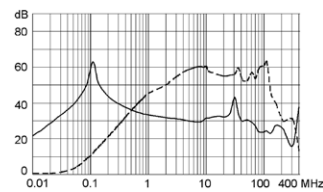


1) Line
2) Load

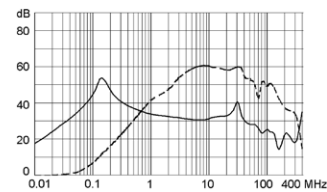
Attenuation Loss

--- differential mode — common mode

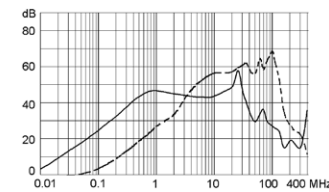
Standard version
0.5 A



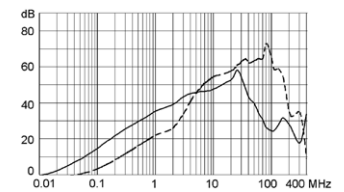
1 A



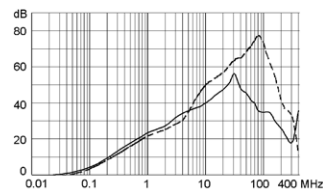
3 A



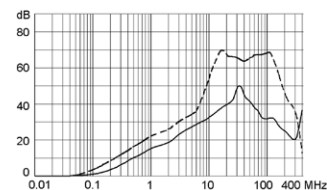
6 A



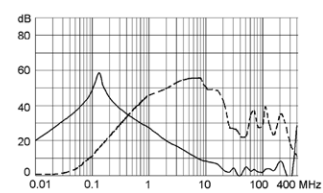
10 A



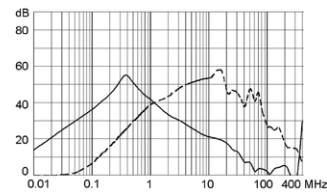
15 A



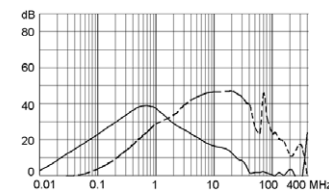
Medical version (M5)
0.5 A



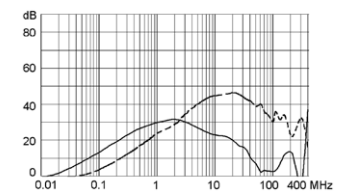
1 A



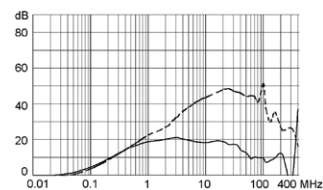
3 A



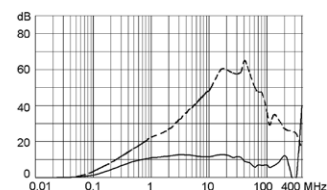
6 A



10 A



15 A



Variants

Rated Current IEC [A]	Rated Current UL [A]	Filter-Type	Panel Thickness s [mm]	Order Number
0.5	0.5	Standard Version	1	GRF4.0411.011.C
1	1	Standard Version	1	GRF4.0412.011.C
6	6	Standard Version	1	GRF4.0416.011.C
10	10	Standard Version	1	GRF4.0417.011.C
0.5	0.5	Standard Version	1.5	GRF4.0411.013.C
1	1	Standard Version	1.5	GRF4.0412.013.C
3	3	Standard Version	1.5	GRF4.0413.013.C
6	6	Standard Version	1.5	GRF4.0416.013.C
10	10	Standard Version	1.5	GRF4.0417.013.C
15	15	Standard Version	1.5	GRF4.0419.013.C
3	3	Standard Version	2	GRF4.0413.014.C
0.5	0.5	Medical Version (M5)	1.5	GRF4.0021.013.C
1	1	Medical Version (M5)	1.5	GRF4.0022.013.C
3	3	Medical Version (M5)	1.5	GRF4.0023.013.C
6	6	Medical Version (M5)	1.5	GRF4.0026.013.C
10	10	Medical Version (M5)	1.5	GRF4.0027.013.C
15	15	Medical Version (M5)	1.5	GRF4.0029.013.C

Articles with packing unit 200 (without ending ".C") are no longer available

Packaging unit

20 Pcs

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 GRF4](#)



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 GRF4](#)

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