IEC Appliance Inlet C8 with Filter, Front Side Mounting

Standard- or Medical-Filter

**new**

Snap-in mounting from front side

Screw-on mounting from front side

C8

70° C

RoHS COMPLIANT

## 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

## Approvals
- VDE Certificate Number: 40029278
- UL File Number: E72928

## Characteristics
- Compact high performance filter
- Designed for standard and medical applications
- Suitable for use in equipment according to IEC/UL 60950
  Suitable for use in medical equipment according to IEC/UL 60601-1

## Other versions on request
- Standard version without X-capacitor

## References
Alternative: version without line filter   0721-PS;   2578

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

## Technical Data

| | | | |
|---|---|---|---|
| Ratings IEC | 0.5 - 2.5 A @ Ta 40 °C / 250 VAC; 50 Hz | Appliance-Inlet/-Outlet | C8 acc. to IEC 60320 UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 2.5 A, Protection Class II |
| Ratings UL/CSA | 0.5 - 6 A @ Ta 40 °C / 250 VAC; 60 Hz | | |
| Dielectric Strength | > 1.7 kVDC between L-N > 4 kVDC between L/N-PE Test voltage (2 sec) | | |
| | | Line Filter | Standard and Medical Version, IEC 60939, UL 1283, CSA C22.2 no. 8 Technical Details |
| Impulse Withstand Voltage | > 2.5 kV between L-N | | |
| Allowable Operation Temp. | -25 °C to 85 °C | MTBF | > 6'700'000 h acc. to MIL-HB-217 F |
| 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 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 3 mm | | |
| Material: Housing | Thermoplastic, black, UL 94V-0 | | |

## Dimension
Screw-on mounting from front side
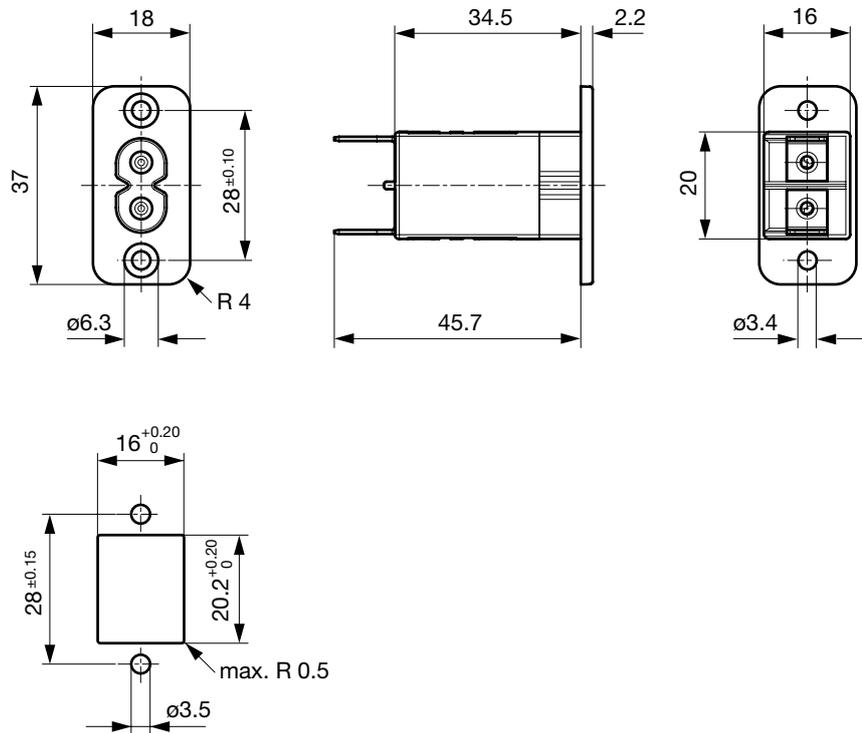
Snap-in mounting from front side
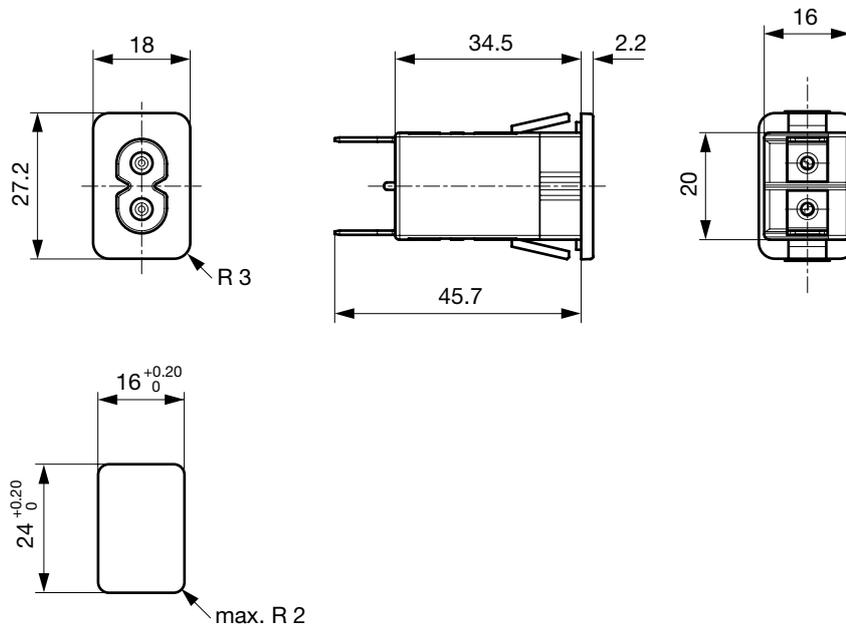
## Technical Data of Filter-Components

| Rated Current [A] | Filter-Type | Inductances L [mH] | Capacitance CX [nF] | Capacitance CY [nF] | R [MΩ] |
|---|---|---|---|---|---|
| 1 | Standard Version without Cx | 2 x 8 | - | - | - |
| 0.5 | Standard Version | 2 x 18 | 100 | - | - |
| 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

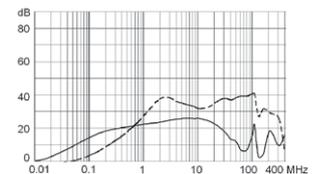Standard version

Medical version M5
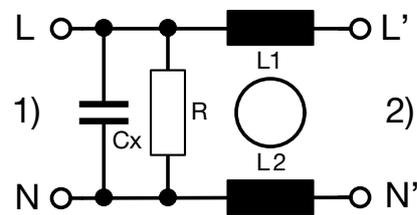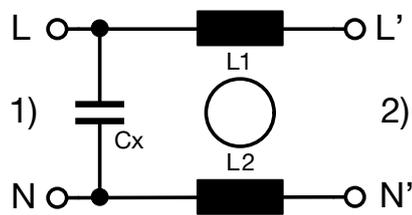


1) Line
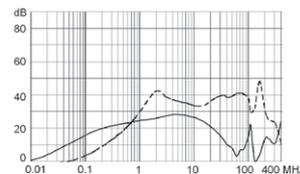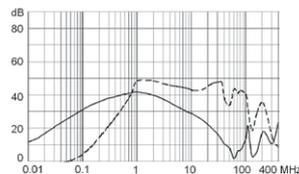2) Load

1) Line
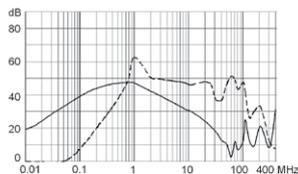2) Load

## Derating Curves
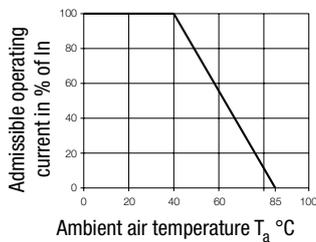


## Attenuation Loss

- - - - differential mode _____ common mode

Standard version

0.5 A

1 A

2.5 A

4 A



6 A
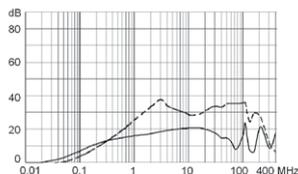
Medical version (M5)

0.5 A



1 A



2.5 A



4 A
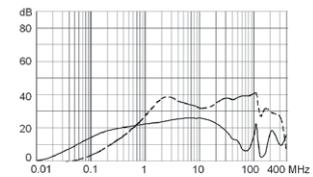


6 A



## All Variants

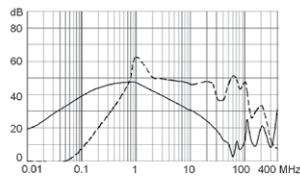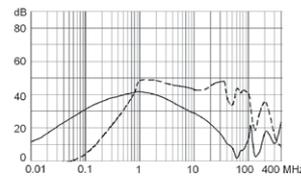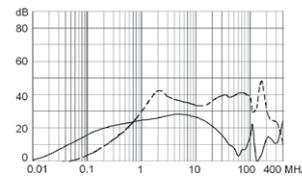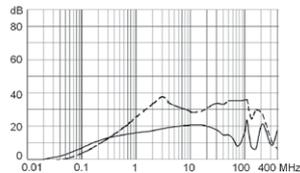| Rated Current [A] | Filter-Type | Mounting | Terminal | Order Number |
|---|---|---|---|---|
| 1 | Standard Version without Cx | Snap-in 1.5 | Quick connect terminal 4.8 x 0.8 mm | 5008.2211 |
| 0.5 | Standard Version | Snap-in 1.0 | Quick connect terminal 4.8 x 0.8 mm | 5008.1010 |
| 0.5 | Standard Version | Snap-in 1.5 | Quick connect terminal 4.8 x 0.8 mm | 5008.2010 |
| 1 | Standard Version | Snap-in 1.5 | Solder terminal | 5008.2021 |
| 1 | Standard Version | Snap-in 1.5 | Quick connect terminal 6.3 x 0.8 mm | 5008.2001 |
| 1 | Standard Version | Snap-in 2.0 | 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 1.0 | Quick connect terminal 4.8 x 0.8 mm | 5008.1012 |
| 2.5 | Standard Version | Snap-in 1.5 | Solder terminal | 5008.2022 |
| 2.5 | Standard Version | Snap-in 1.5 | Quick connect terminal 4.8 x 0.8 mm | 5008.2012 |
| 2.5 | Standard Version | Snap-in 2.0 | Solder terminal | 5008.3022 |
| 2.5 | Standard Version | Snap-in 2.0 | Quick connect terminal 6.3 x 0.8 mm | 5008.3002 |
| 4 | Standard Version | Snap-in 1.5 | 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 1.0 | Quick connect terminal 4.8 x 0.8 mm | 5008.1016 |
| 6 | Standard Version | Snap-in 1.5 | Quick connect terminal 4.8 x 0.8 mm | 5008.2016 |
| 0.5 | Medical Version (M5) | Snap-in 1.0 | 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 1.0 | Quick connect terminal 4.8 x 0.8 mm | 5008.1111 |
| 1 | Medical Version (M5) | Snap-in 2.0 | Quick connect terminal 4.8 x 0.8 mm | 5008.3111 |
| 2.5 | Medical Version (M5) | Snap-in 1.0 | Quick connect terminal 4.8 x 0.8 mm | 5008.1112 |
| 2.5 | Medical Version (M5) | Snap-in 2.0 | Quick connect terminal 6.3 x 0.8 mm | 5008.3102 |
| 4 | Medical Version (M5) | Snap-in 1.0 | Quick connect terminal 4.8 x 0.8 mm | 5008.1114 |
| 4 | Medical Version (M5) | Snap-in 1.5 | Quick connect terminal 4.8 x 0.8 mm | 5008.2114 |
| 6 | Medical Version (M5) | Snap-in 1.0 | Quick connect terminal 4.8 x 0.8 mm | 5008.1116 |
| 6 | Medical Version (M5) | Snap-in 1.5 | Quick connect terminal 4.8 x 0.8 mm | 5008.2116 |

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

**Packaging unit**    20 Pcs

## Mating Outlets/Connectors

**Category / Description**

Appliance Outlet Overview complete

| | |
|---|---|
| IEC Appliance Outlet D, Screw-on Mounting, Front Side, Solder Terminal | 5082 |

Appliance Outlet further types to 5008

Connector Overview complete

| | |
|---|---|
| IEC Appliance Outlet D, Screw-on Mounting, Front Side, Solder Terminal | 5084 |
| IEC Appliance Outlet D, insert Mounting, Solder Terminal | 5086 |

Connector further types to 5008

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