**Minimum Depth, Cost-effective Shielded Power Inlet Filter**

# SRB Series

UL Recognized
CSA Certified
VDE Approved*


## SRB Series

- Smallest depth Corcom RFI filter available
- Complete shield
- Wide range of capacitor values
- Attenuates coupled EMI up to 300MHz
- Minimal to low leakage current versions are suitable for patient and non-patient contact medical equipment.
- Full range of mounting and termination options including unique vertical and horizontal orientation slide in mounts eliminate the need for mounting hardware

## Ordering Information

15 SRB S 1 - Q

**Capacitor ID**
See Chart
Omit if none

**Output Styles**
1 – Spade terminals *(back)*
2 – Spade terminals *(bottom)*
8 – Wire leads
P – PC board pins

**Mounting Style**
S – Snap-in
X – Slide-in (*short edge / horizontal*)
Y – Slide-in (*long edge / vertical*)
Omit for flange mount

**SRB Series**

**Current Rating**
15A

**15A versions are tested by Underwriters Laboratories to US and Canadian requirements and are VDE approved at 10A, 250VAC*

## Specifications

**Maximum leakage current each Line to Ground:**

| Capacitor ID / Value | @120 VAC 60 Hz | @250 VAC 50 Hz |
|---|---|---|
| Blank / None | 2 µA | 5 µA |
| Q / 33 pF | 2.1 µA | 3.65 µA |
| R / 100 pF | 9.6 µA | 16.6 µA |
| S / 220 pF | 19.2 µA | 33.2 µA |
| T / 330 pF | 24.0 µA | 41.5 µA |
| W / 470 pF | 0.04 mA | 0.07 mA |
| X / 1000 pF | 0.07 mA | 0.13 mA |
| Y / 2200 pF | 0.16 mA | 0.28 mA |
| Z / 3300 pF | 0.24 mA | 0.42 mA |

**Hipot rating (one minute):**
Line to Ground: 2250 VDC
Line to Line: 1450 VDC

**Rated Voltage (max.):** 250 VAC

**Operating Frequency:** 50/60 Hz

**Rated Current:** 15A*

**Operating Ambient Temperature Range (at rated current $I_r$):** -10°C to +40°C
In an ambient temperature ($T_a$) higher than +40°C the maximum operating current ($I_o$) is calculated as follows: $I_o = I_r \sqrt{(85-Ta)/45}$

## Capacitor Options

| Capacitor ID | Capacitor Value |
|---|---|
| Q | 33 pF |
| R | 100 pF |
| S | 220 pF |
| T | 330 pF |
| W | 470 pF |
| X | 1000 pF |
| Y* | 2200 pF |
| Z* | 3300 pF |

**Not available in SRB8, SRBX or SRBY styles*





Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

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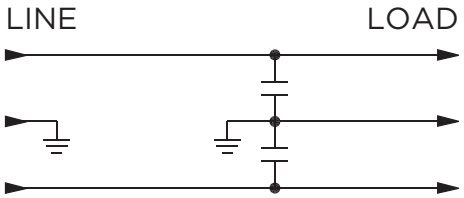
# SRB Series

## Available Part Numbers

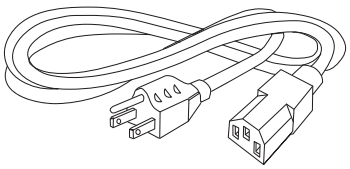
| Flange Mount | | | |
|---|---|---|---|
| 15SRB1 | 15SRB2 | 15SRBP | 15SRB8 |
| 15SRB1-Q | 15SRB2-Q | 15SRBP-Q | 15SRB8-Q |
| 15SRB1-R | 15SRB2-R | 15SRBP-R | 15SRB8-R |
| 15SRB1-S | 15SRB2-S | 15SRBP-S | 15SRB8-S |
| 15SRB1-T | 15SRB2-T | 15SRBP-T | 15SRB8-T |
| 15SRB1-W | 15SRB2-W | 15SRBP-W | 15SRB8-W |
| 15SRB1-X | 15SRB2-X | 15SRBP-X | 15SRB8-X |
| 15SRB1-Y | 15SRB2-Y | 15SRBP-Y | |
| 15SRB1-Z | 15SRB2-Z | 15SRBP-Z | |
| **Snap-In** | | **Slide-In** | |
| 15SRBS1 | 15SRBS8 | 15SRBX8 | 15SRBY8 |
| 15SRBS1-Q | 15SRBS8-Q | 15SRBX8-Q | 15SRBY8-Q |
| 15SRBS1-R | 15SRBS8-R | 15SRBX8-R | 15SRBY8-R |
| 15SRBS1-S | 15SRBS8-S | 15SRBX8-S | 15SRBY8-S |
| 15SRBS1-T | 15SRBS8-T | 15SRBX8-T | 15SRBY8-T |
| 15SRBS1-W | 15SRBS8-W | 15SRBX8-W | 15SRBY8-W |
| 15SRBS1-X | 15SRBS8-X | 15SRBX8-X | 15SRBY8-X |
| 15SRBS1-Y | | | |
| 15SRBS1-Z | | | |

## Electrical Schematic



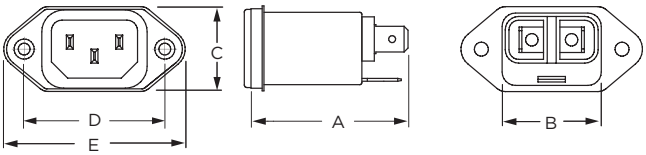

## Accessories

**GA400**: NEMA 5-15P to IEC 60320-1 C-13 line cord



## Case Styles

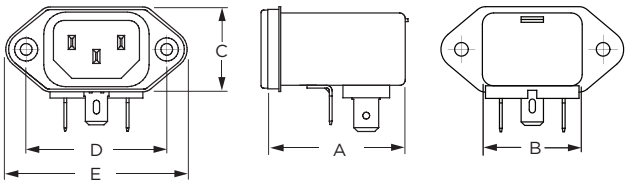
### SRB1




Typical Dimensions:

| | |
|---|---|
| Mounting holes (2): | .132 [*3.35*] Dia. with .236 [*5.99*] Dia. x 90° countersink for #4 flathead screw |
| Line Inlet (1): | IEC 60320-1 C14 |
| Load Terminals (2): | .250 [*6.3*] with .07 [*1.8*] Dia. hole |
| Ground Terminal (1): | .250 [*6.3*] with .07 x .16 [*1.8 x 3.8*] slot |

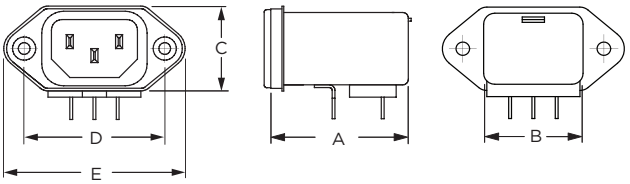
### SRB2




Typical Dimensions:

| | |
|---|---|
| Mounting holes (2): | .132 [*3.35*] Dia. with .236 [*5.99*] Dia. x 90° countersink for #4 flathead screw |
| Line Inlet (1): | IEC 60320-1 C14 |
| Load Terminals (2): | .250 [*6.3*] with .07 [*1.8*] Dia. hole |
| Ground Terminal (1): | .250 [*6.3*] with .07 x .16 [*1.8 x 3.8*] slot |

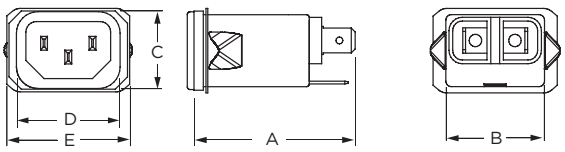
### SRBP




Typical Dimensions:

| | |
|---|---|
| Mounting holes (2): | .132 [*3.35*] Dia. with .236 [*5.99*] Dia. x 90° countersink for #4 flathead screw |
| Line Inlet (1): | IEC 60320-1 C14 |
| PC board pins (3): | .031 [*0.7*] square, ± .003 [*.07*] |

### SRBS1



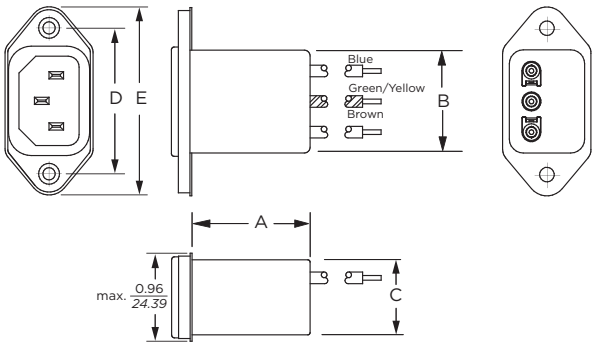

Typical Dimensions:

| | |
|---|---|
| Line Inlet (1): | IEC 60320-1 C14 |
| Load Terminals (2): | .250 [*6.3*] with .07 [*1.8*] Dia. hole |
| Ground Terminal (1): | .250 [*6.3*] with .07 x .16 [*1.8 x 3.8*] slot |

# SRB Series

## Case Styles *(continued)*

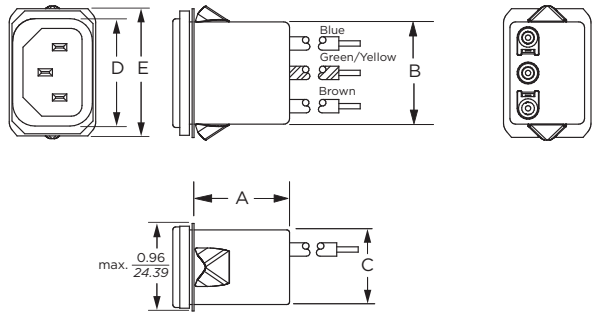
### SRB8




Typical Dimensions:

| | |
|---|---|
| Mounting holes (2): | .132 [*3.35*] Dia. with .236 [*5.99*] Dia. x 90° countersink for #4 flathead screw |
| Line Inlet (1): | IEC 60320-1 C14 |
| Wire Leads: | 4.0 [*101.6*] Min., 18AWG, UL1015 |

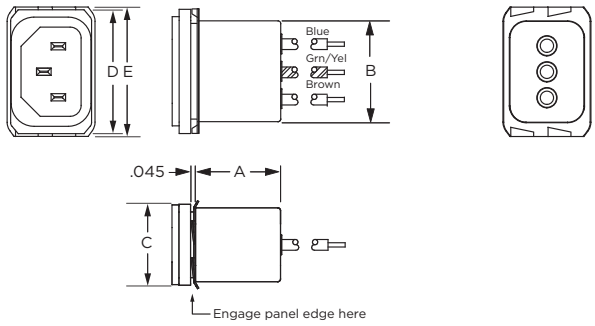
### SRBS8




Typical Dimensions:

| | |
|---|---|
| Line Inlet (1): | IEC 60320-1 C14 |
| Wire Leads: | 4.0 [*101.6*] Min., 18AWG, UL1015 |

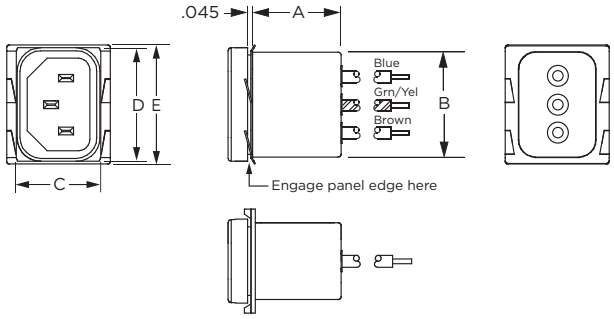
### SRBX8




Typical Dimensions:

| | |
|---|---|
| Line Inlet (1): | IEC 60320-1 C14 |
| Wire Leads: | 4.0 [*101.6*] Min., 18AWG, UL1015 |

### SRBY8




Typical Dimensions:

| | |
|---|---|
| Line Inlet (1): | IEC 60320-1 C14 |
| Wire Leads: | 4.0 [*101.6*] Min., 18AWG, UL1015 |

## Case Dimensions

| Part No. | A (max.) | B (max.) | C (max.) | D ± .015 / ± .38 | E (max.) |
|---|---|---|---|---|---|
| 15SRB1 | **1.75** *44.45* | **1.13** *28.70* | **0.96** *24.38* | **1.58** *40.00* | **2.04** *51.76* |
| 15SRB2 | **1.54** *39.12* | **1.13** *28.70* | **0.96** *24.38* | **1.58** *40.00* | **2.04** *51.76* |
| 15SRBP | **1.54** *39.12* | **1.13** *28.70* | **0.96** *24.38* | **1.58** *40.00* | **2.04** *21.76* |
| 15SRBS1 | **1.75** *44.45* | **1.13** *28.70* | **0.96** *24.38* | **1.19** *30.10* | **1.41** *35.81* |
| 15SRB8 | **0.95** *24.13* | **1.13** *28.70* | **0.96** *24.38* | **1.58** *40.00* | **2.04** *51.76* |
| 15SRBS8 | **.95** *24.13* | **1.13** *28.70* | **0.96** *24.38* | **1.19** *30.10* | **1.41** *35.81* |
| 15SRBX8 | **0.95** *24.1* | **1.11** *28.2* | **0.89** *22.61* | **1.35*** *34.29** | **1.41** *35.81* |
| 15SRBY8 | **0.95** *24.1* | **1.11** *28.2* | **0.89** *22.61* | **1.30*** *33.02** | **1.36** *34.54* |

*max.





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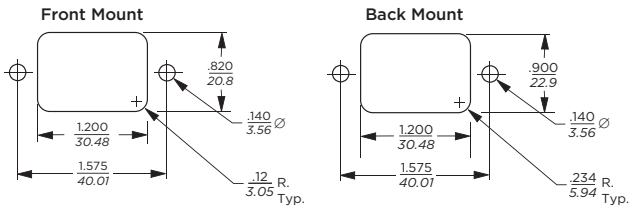
# SRB Series

## Recommended Panel Cutouts

### SRB1, SRB2, SRBP & SRB8

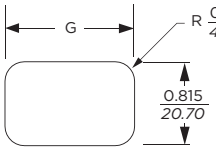



Tolerances ± .005 [*0.13*] unless otherwise noted

Note 1: SRB1 and SRB8 can be front or back mounted

Note 2: SRB2 and SRBP can be back mounted only

### SRBS

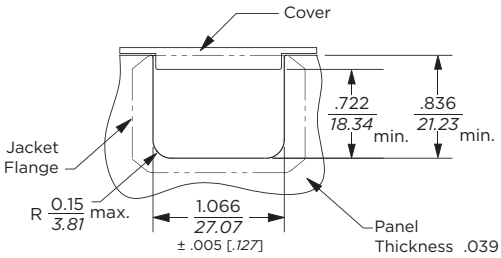



Front Mount only

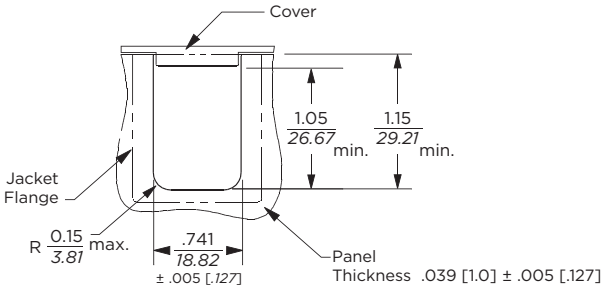
| Panel Thickness | G Dim. ± .002 [*.05*] |
|---|---|
| 0.031 - 0.052 [*0.79 - 1.32*] | 1.260 [*32.00*] |
| 0.046 - 0.068 [1.17 - 1.73] | 1.350 [*34.29*] |

Tolerance ±.002 *[.050]*

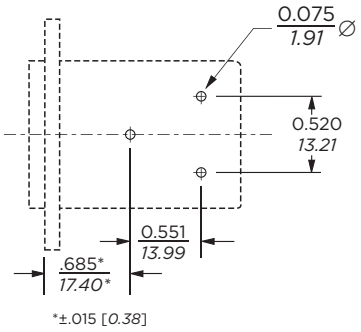
### SRBX



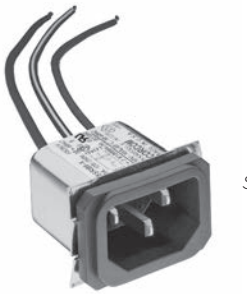

### SRBY




## PC Board Layout




*±.015 [*0.38*]



*SRBX8*

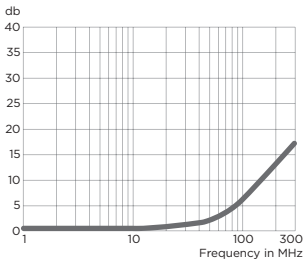
# SRB Series

## Performance Data

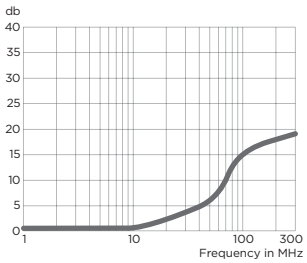
### Typical Insertion Loss

Measured in closed 50 Ohm system

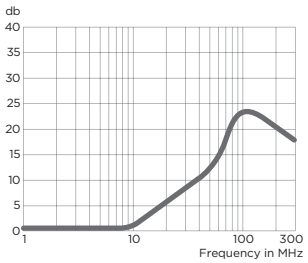
Q



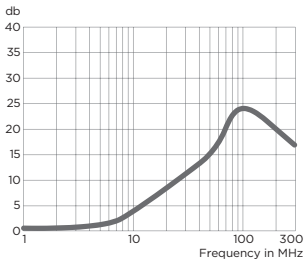

R



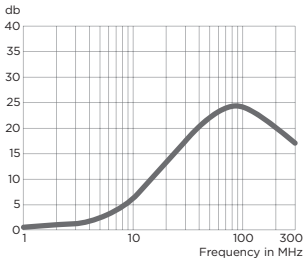

S



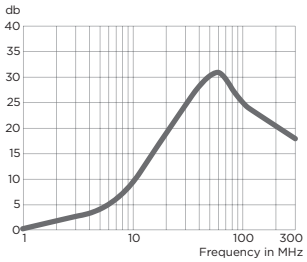

T



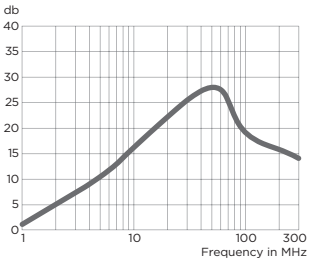

W



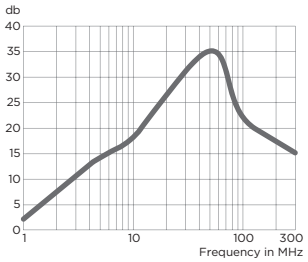

X




Y




Z




Common Mode / Asymmetrical (L-G)
Differential Mode / Symmetrical (L-L)

### Minimum Insertion Loss

Measured in closed 50 Ohm system

Common Mode / Asymmetrical (Line to Ground)

| Current Rating | Frequency – MHz | | | | | |
|---|---|---|---|---|---|---|
| | 1 | 5 | 10 | 50 | 100 | 300 |
| Q | - | - | - | - | - | 20 |
| R | - | - | - | 3 | 6 | 22 |
| S | - | - | 1 | 6 | 17 | 19 |
| T | - | - | 2 | 13 | 13 | 19 |
| W | - | 2 | 4 | 18 | 13 | 20 |
| X | - | 5 | 9 | 25 | 10 | 17 |
| Y | 1 | 10 | 15 | 20 | 8 | 22 |
| Z | 2 | 14 | 18 | 17 | 7 | 15 |