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## **TE Connectivity SRBP Series Corcom Shielded Power Inlet Filter**



## Specifications

- UL Recognized, CSA Certified, VDE Approved
- **Operating Frequency:** 50/60 Hz
- **Rated Voltage:** 250 VAC
- **Rated Current:** 15A
- **Capacitor Options:** Q, R, S, T, W, X, Y, Z
- **Hipot Rating:** 2250 VDC Line to Ground, 1450 VDC Line to Line

## Product Usage Instructions

### Installation

1. Ensure power is disconnected before installation.
2. Mount the SRB Series filter securely in the desired location.
3. Connect the input power lines to the designated terminals following proper polarity.
4. Ground the filter according to local electrical codes.

### Maintenance

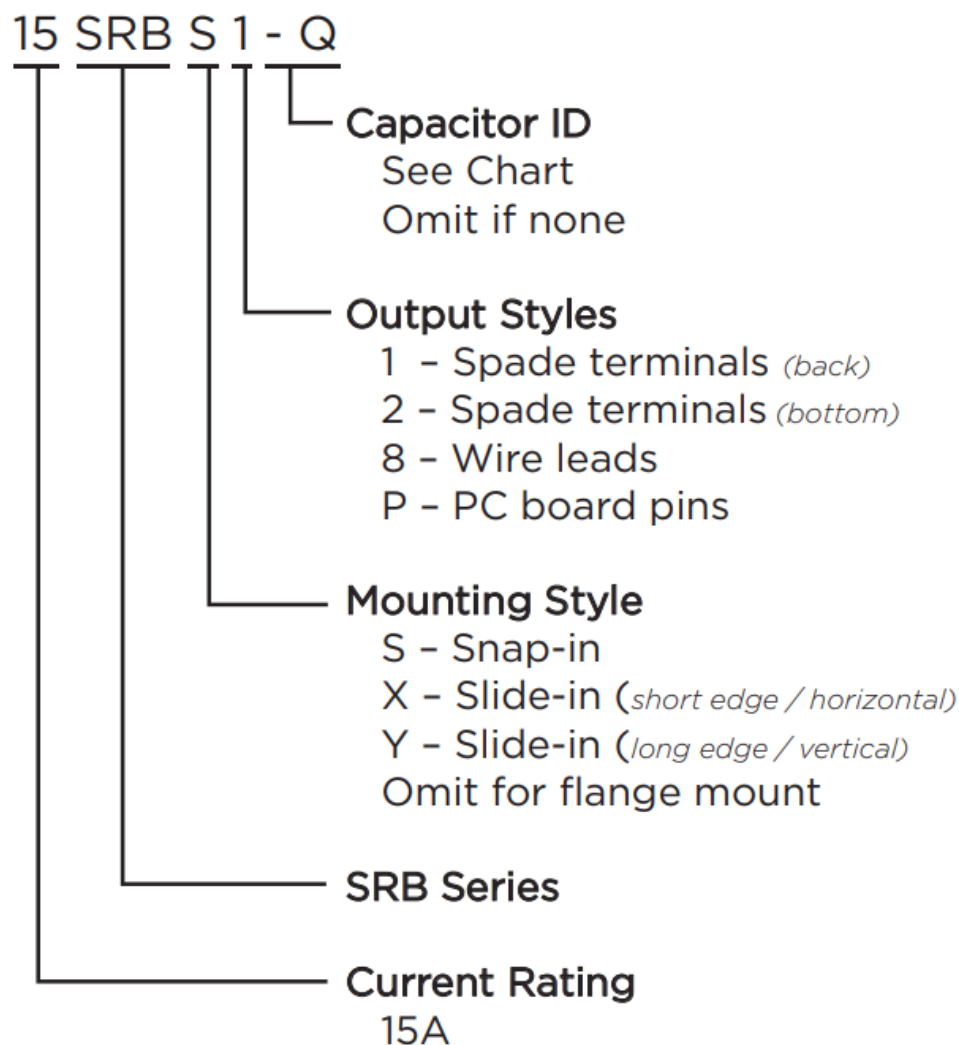
Regularly inspect the filter for any signs of damage or wear. Replace if necessary to maintain optimal performance.

### 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, eliminates the need for mounting hardware

## Ordering Information



- 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

| <u>Capacitor ID / Value</u> | @120 VAC     | @250 VAC     |
|-----------------------------|--------------|--------------|
|                             | <u>60 Hz</u> | <u>50 Hz</u> |
| Blank / None                | 2 $\mu$ A    | 5 $\mu$ A    |
| Q / 33 pF                   | 2.1 $\mu$ A  | 3.65 $\mu$ A |
| R / 100 pF                  | 9.6 $\mu$ A  | 16.6 $\mu$ A |
| S / 220 pF                  | 19.2 $\mu$ A | 33.2 $\mu$ A |
| T / 330 pF                  | 24.0 $\mu$ A | 41.5 $\mu$ A |
| 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:  $I_o = I_r \sqrt{(85-T_a)/45}$

#### 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 |

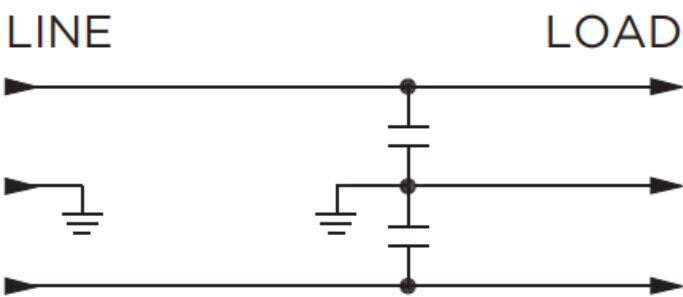
## Available Part Numbers

### 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 |

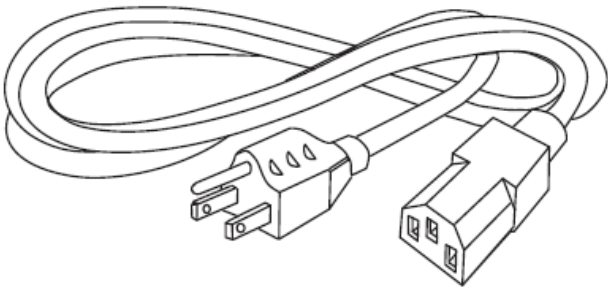
|           |           |           |           |
|-----------|-----------|-----------|-----------|
| 15SRBS1-S | 15SRBS8-S | 15SRBX8-S | 15SRBY8-S |
| 15SRBS1-T | 15SRBS8-T | 15SRBX8-T | 15SRBY8-T |
| 15SRBS1-W | 15SRBS8-W | 15SRBX8-W | 15SRBY8-W |
| 15SRBS1-X | 15SRBS8-X | 15SRBX8-X | 15SRBY8-X |
| 15SRBS1-Y |           |           |           |
| 15SRBS1-Z |           |           |           |

### Electrical Schematic



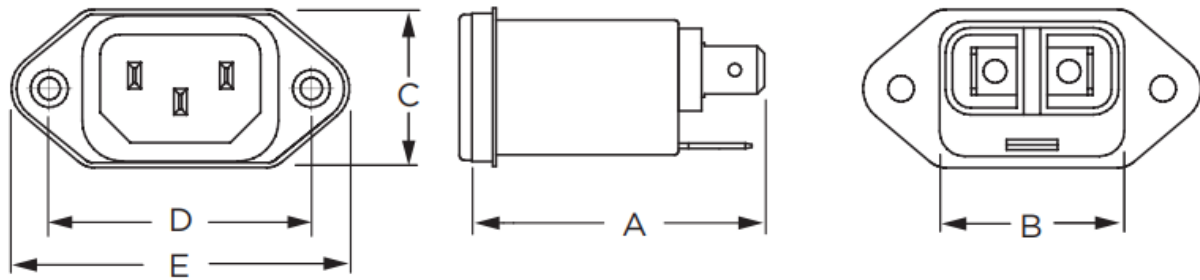
### Accessories

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



### Case Styles

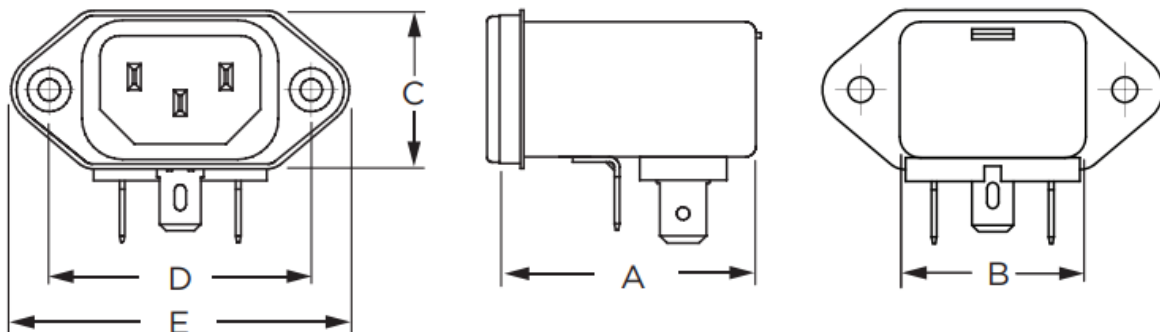
**SRB1**



### 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

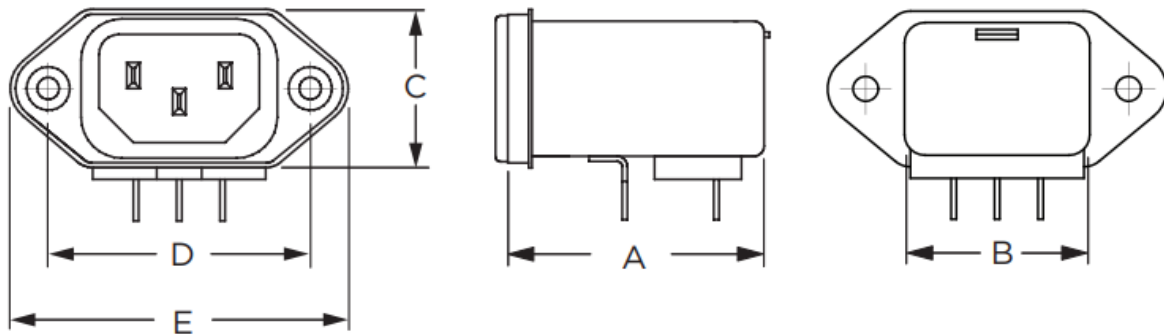


### Typical Dimensions

- **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

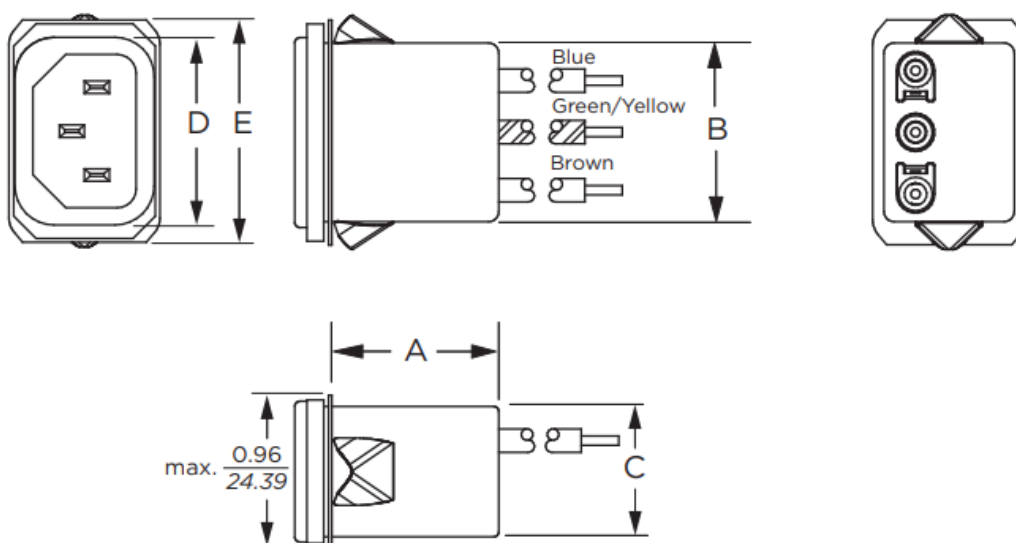
## SRBP



## Typical Dimensions

- **Mounting holes (2)**
  - IEC 60320-1 C14
- **Line Inlet (1)**
  - 250 [6.3] with .07 [1.8] Dia. hole
- **PC board pins (3)**
  - 250 [6.3] with .07 x .16 [1.8 x 3.8] slot

## SRB8



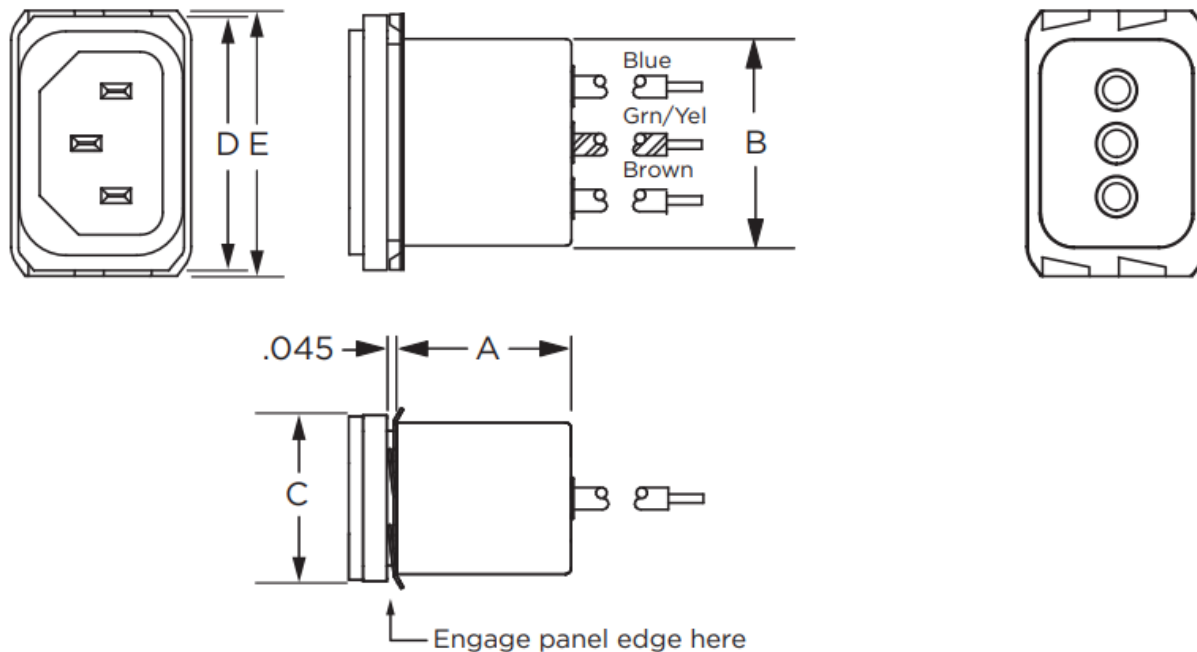
## Typical Dimensions

- **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

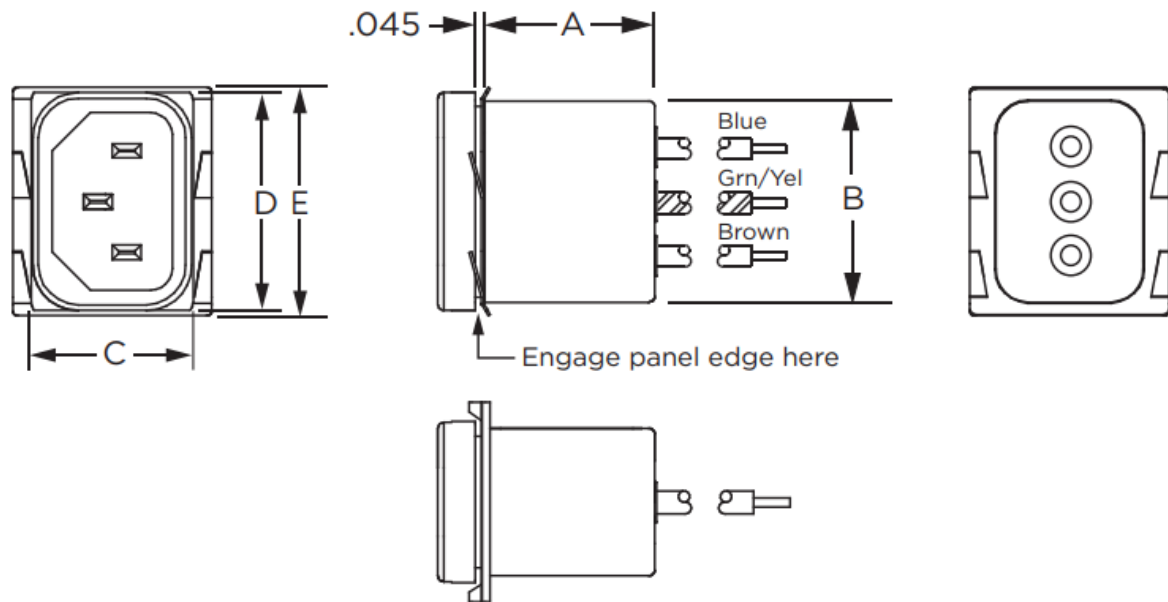
## SRBS8



## Typical Dimensions

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

## SRBY8



## Typical Dimensions

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

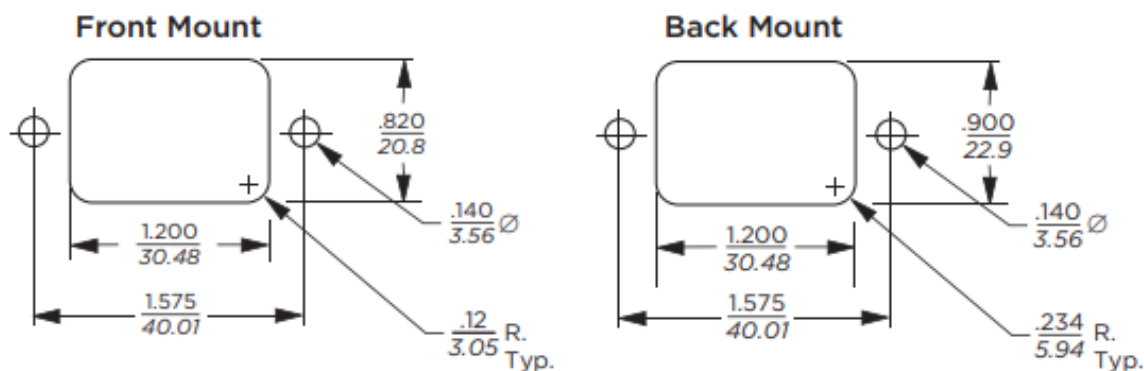
## Case Dimensions

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

\*max.

## Recommended Panel Cutouts

### SRB1, SRB2, SRBP & SRB8

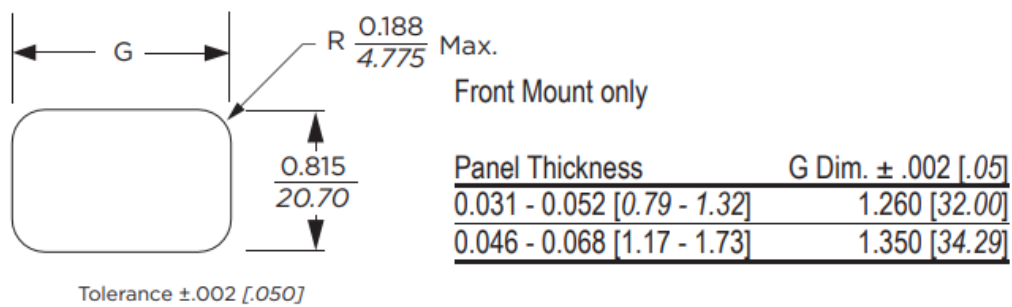


Tolerances  $\pm .005$  [0.13] unless otherwise noted

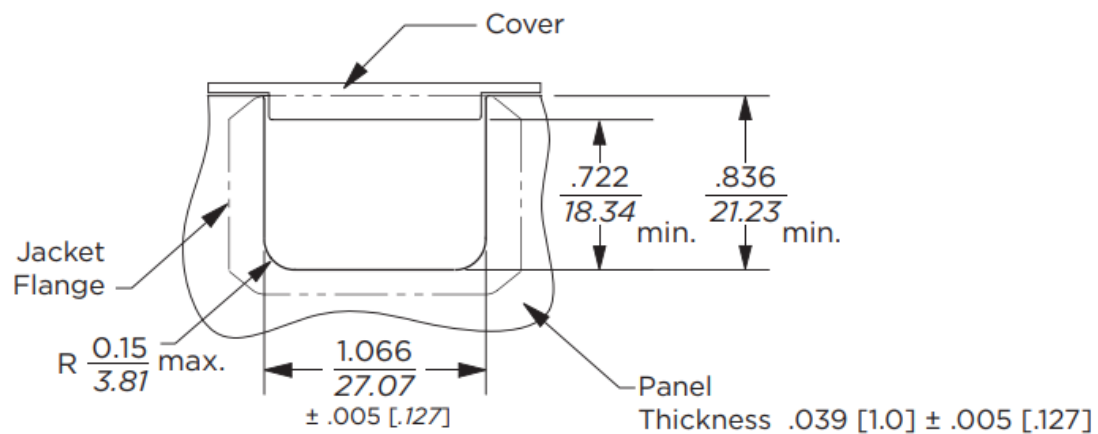
Note 1: SRB1 and SRB8 can be front or back mounted

Note 2: SRB2 and SRBP can be back mounted only

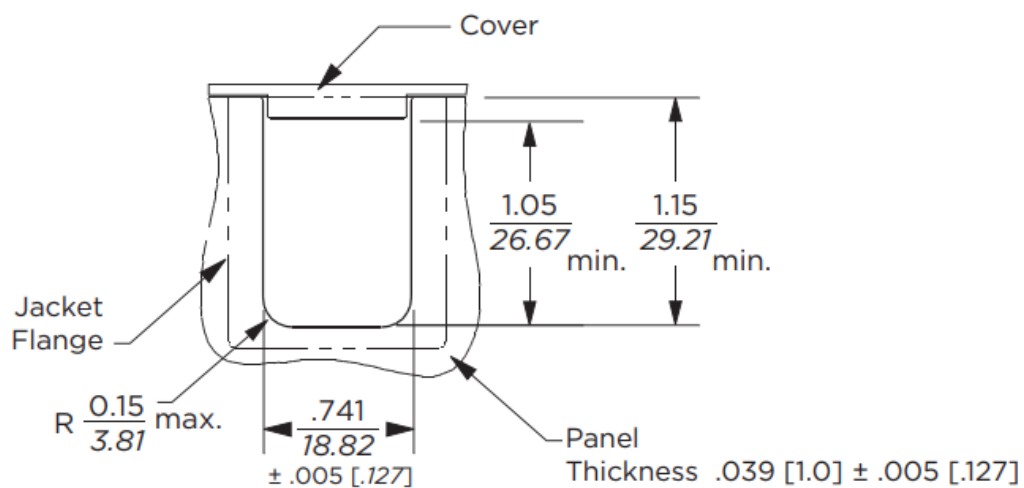
### SRBS



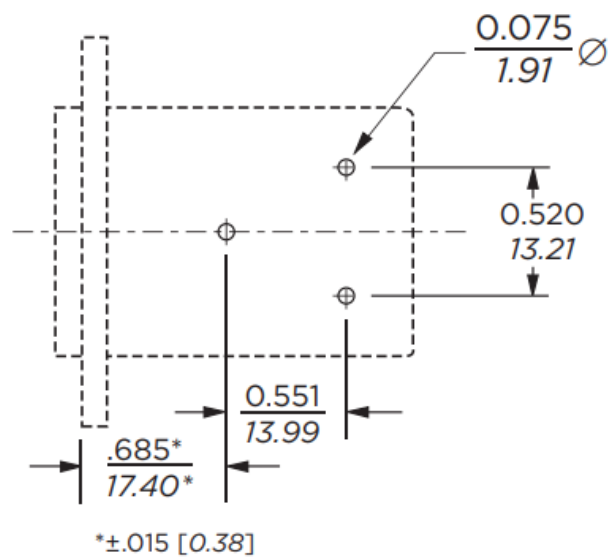
## SRBX



## SRBY



## PC Board Layout



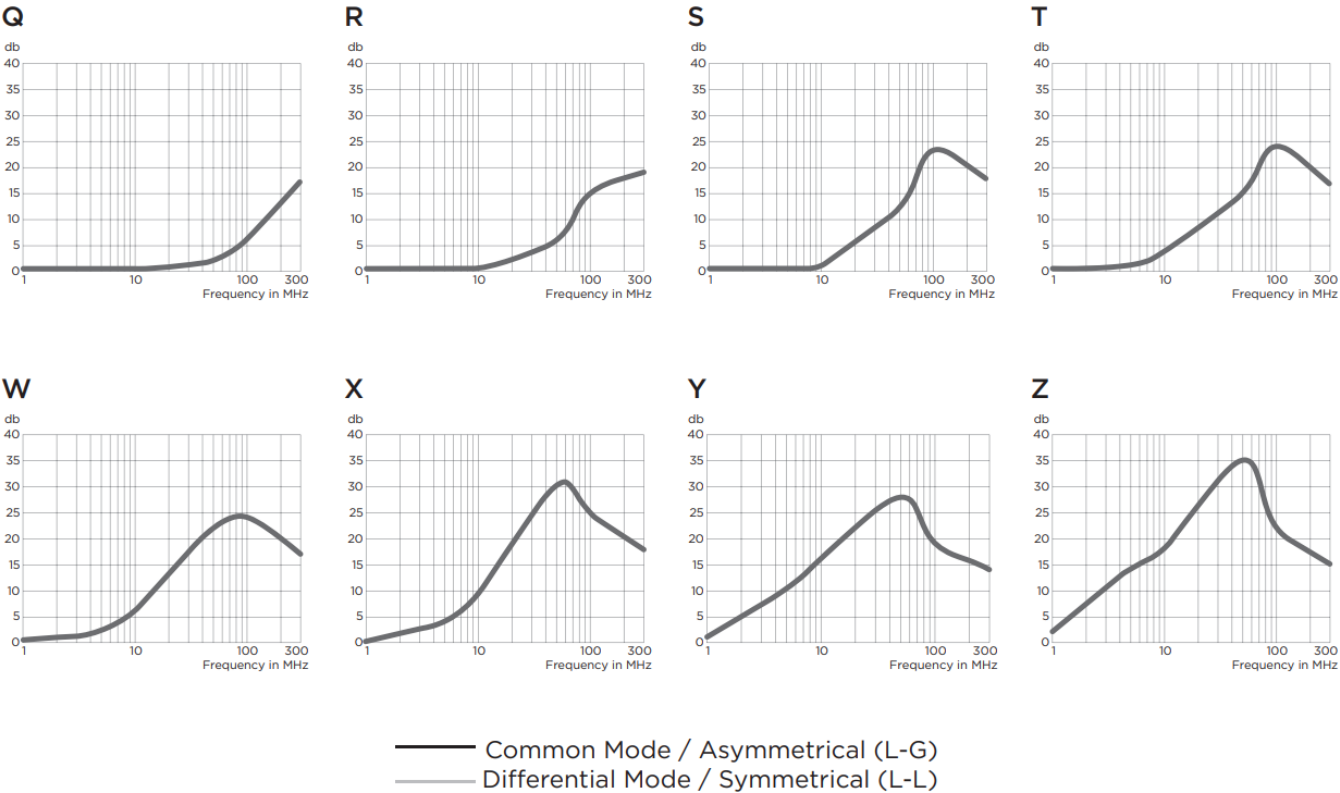
SRBX8

## Performance Data

### Typical Insertion Loss

Measured in a closed 50 Ohm system

Measured in closed 50 Ohm system



Minimum Insertion Loss

Common Mode / Asymmetrical (Line to Ground)

Measured in closed 50 Ohm system

Common Mode / Asymmetrical (Line to Ground)

| Current<br>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  |

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. For email, phone or live chat, please go to [te.com/help](https://te.com/help) [corcom.com](https://corcom.com)

## FAQs

What is the maximum leakage current for each Line to Ground at different voltages?

@120 VAC: 2.1 A, @250 VAC: 3.65 A

What are the available capacitor options for the SRB Series?

Q (33 pF), R (100 pF), S (220 pF), T (330 pF), W (470 pF), X (1000 pF), Y (2200 pF), Z (3300 pF)

How should I calculate the maximum operating current for the SRB Series?

$I_o = I_r (85 - T_a) / 45$ , where  $I_o$  is the maximum operating current,  $I_r$  is the rated current, and  $T_a$  is the ambient temperature.

## Documents / Resources

|                                                                                     |                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><a href="#">TE Connectivity SRBP Series Corcom Shielded Power Inlet Filter [pdf]</a> User Guide</p> <p>SRBP, SRBS8, SRB1, SRB2, SRBP Series Corcom Shielded Power Inlet Filter, SRBP Series, Corcom Shielded Power Inlet Filter, Shielded Power Inlet Filter, Power Inlet Filter, Inlet Filter, Filter</p> |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## References

- [User Manual](#)

TE

connectivity

Corcom Shielded Power Inlet Filter, Filter, Inlet Filter, Power Inlet Filter, Shielded Power Inlet Filter, SRB1, SRB2, SRBP, SRBP Series, SRBP Series Corcom Shielded Power Inlet Filter, SRBS8, TE connectivity

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