

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	@250 VAC
Blank / None	2 μ A	5 μ A
Q / 33 pF	2.1 μ A	3.65 μ A
R / 100 pF	9.6 μ A	16.6 μ A
S / 220 pF	19.2 μ A	33.2 μ A
T / 330 pF	24.0 μ A	41.5 μ 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

*Not available in SRB8, SRBX or SRBY styles

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Power Inlet Filters & Power Entry Modules

Minimum Depth, Cost-effective Shielded Power Inlet Filter *(continued)*

SRB Series

Available Part Numbers

Flange Mount

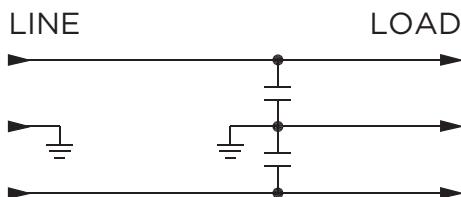
15SRB1	15SRB2	15SRBP	15SRB8
15SRB1-Q	15SRB2-Q	15SRBP-Q	15SRB8-Q
15SRB1-R	15SRB2-R	15SRBP-R	15SRB8-R
15SRB1-S	15SRB2-S	15SRBP-S	15SRB8-S
15SRB1-T	15SRB2-T	15SRBP-T	15SRB8-T
15SRB1-W	15SRB2-W	15SRBP-W	15SRB8-W
15SRB1-X	15SRB2-X	15SRBP-X	15SRB8-X
15SRB1-Y	15SRB2-Y	15SRBP-Y	
15SRB1-Z	15SRB2-Z	15SRBP-Z	

Snap-In

Slide-In

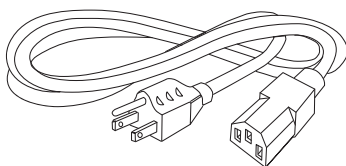
15SRBS1	15SRBS8	15SRBX8	15SRBY8
15SRBS1-Q	15SRBS8-Q	15SRBX8-Q	15SRBY8-Q
15SRBS1-R	15SRBS8-R	15SRBX8-R	15SRBY8-R
15SRBS1-S	15SRBS8-S	15SRBX8-S	15SRBY8-S
15SRBS1-T	15SRBS8-T	15SRBX8-T	15SRBY8-T
15SRBS1-W	15SRBS8-W	15SRBX8-W	15SRBY8-W
15SRBS1-X	15SRBS8-X	15SRBX8-X	15SRBY8-X
15SRBS1-Y			
15SRBS1-Z			

Electrical Schematic



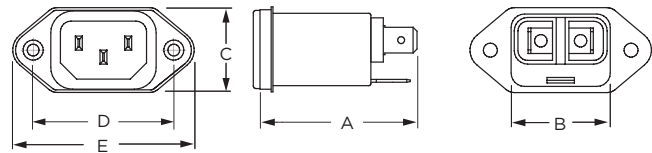
Accessories

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



Case Styles

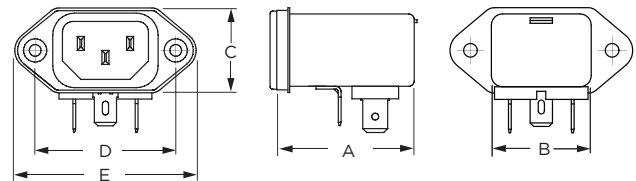
SRB1



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

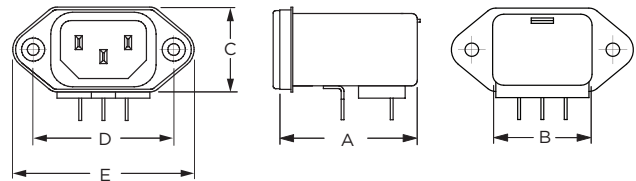
SRB2



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

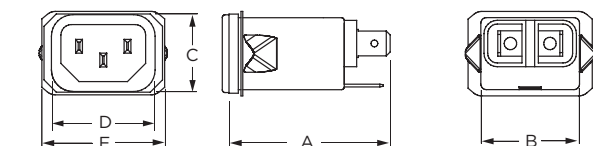
SRBP



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:

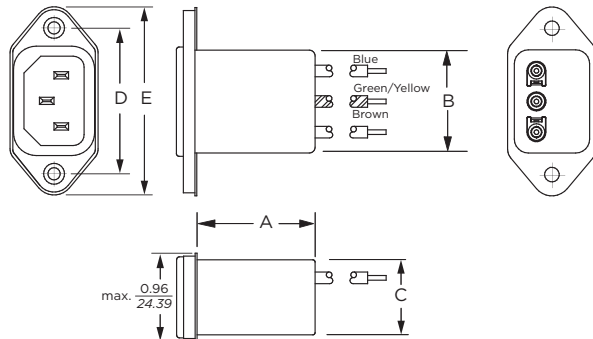
Line Inlet (1): IEC 60320-1 C14
Load Terminals (2): .250 [6.3] with .07 [1.8] Dia. hole
Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot

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SRB Series

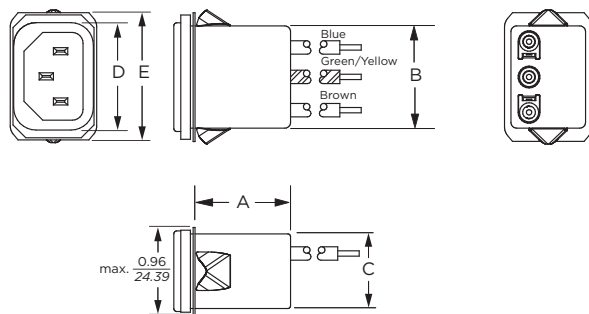
Case Styles *(continued)*

SRB8



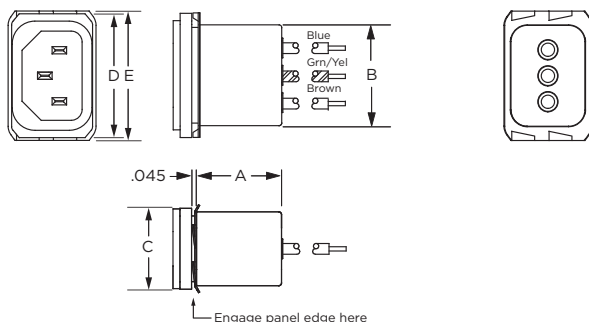
Typical Dimensions:
Mounting holes (2): .132 [3.35] Dia. with .236 [5.99] Dia. x 90° countersink for #4 flathead screw
Line Inlet (1): IEC 60320-1 C14
Wire Leads: 4.0 [101.6] Min., 18AWG, UL1015

SRBS8



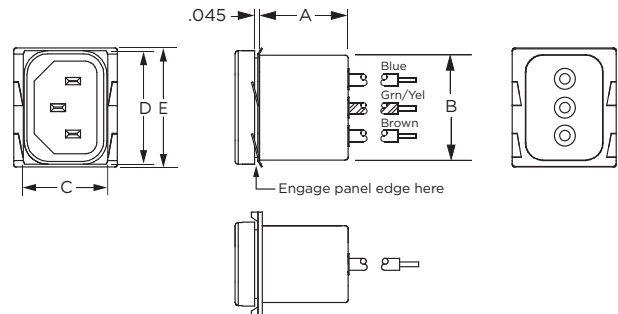
Typical Dimensions:
Line Inlet (1): IEC 60320-1 C14
Wire Leads: 4.0 [101.6] Min., 18AWG, UL1015

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 $\pm .015$ $\pm .38$	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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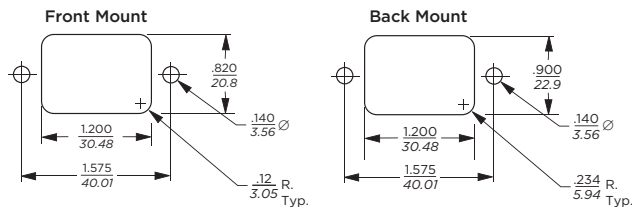
Power Inlet Filters & Power Entry Modules

Minimum Depth, Cost-effective Shielded Power Inlet Filter *(continued)*

SRB Series

Recommended Panel Cutouts

SRB1, SRB2, SRBP & SRB8

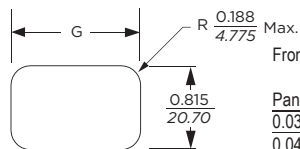


Tolerances $\pm .005$ [0.13] unless otherwise noted

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

Note 2: SRB2 and SRBP can be back mounted only

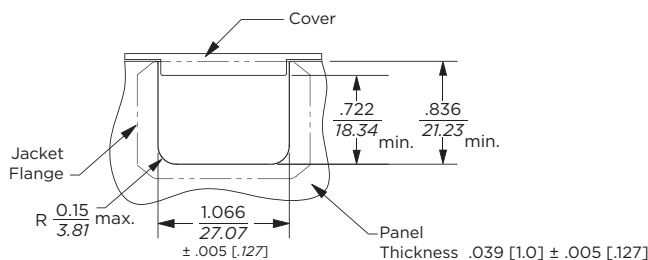
SRBS



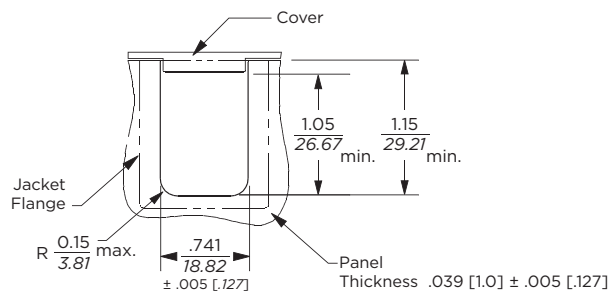
Front Mount only

Panel Thickness	G Dim. $\pm .002$ [.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]

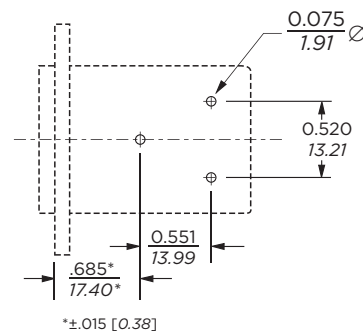
SRBX



SRBY



PC Board Layout



SRBX8

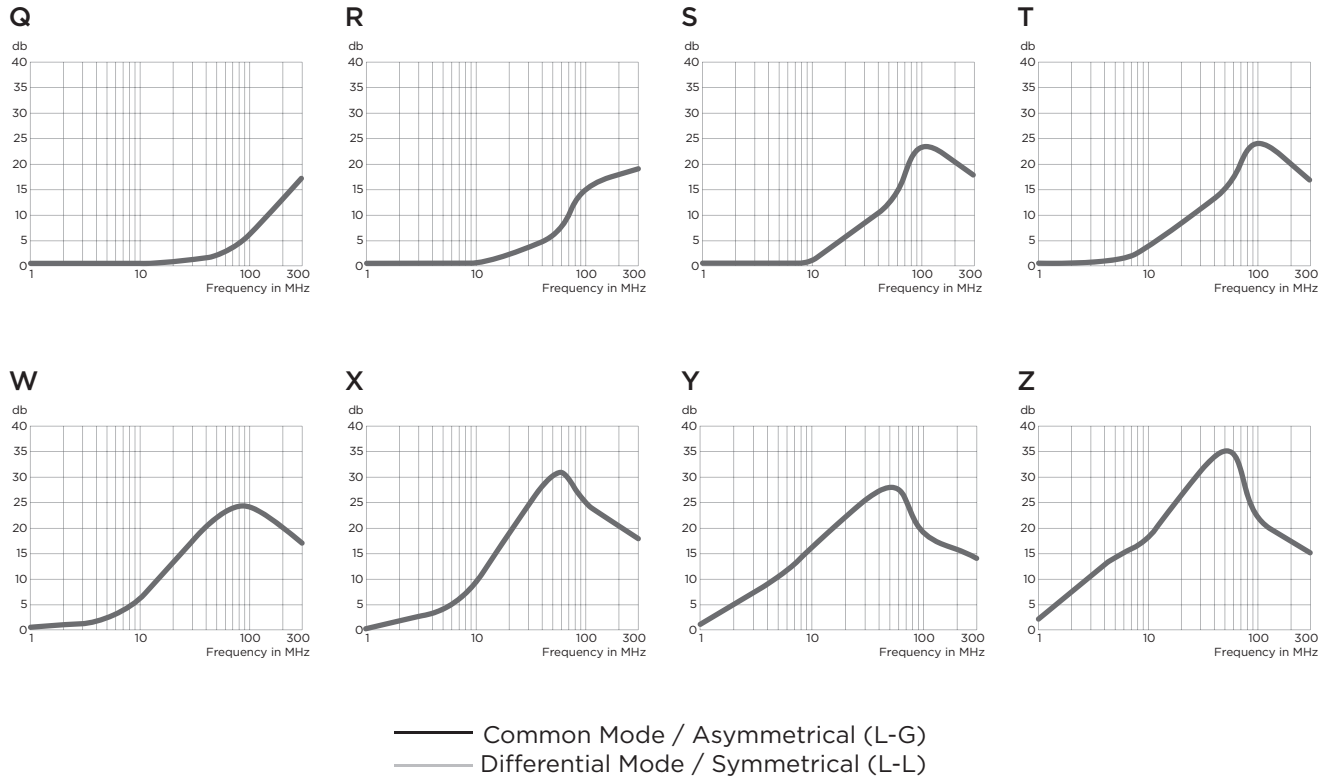
Minimum Depth, Cost-effective Shielded Power Inlet Filter *(continued)*

SRB Series

Performance Data

Typical Insertion Loss

Measured in closed 50 Ohm system



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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TE Connectivity:

[15SRBS1-Y](#) [15SRBY8](#) [15SRBY8-T](#) [15SRBY8-X](#) [15SRBS8-S](#) [15SRBP-Z](#) [15SRB2-Z](#) [15SRB2-W](#) [15SRB2-Y](#)
[15SRBS1-R](#) [15SRB2-X](#) [15SRBS1-Z](#) [15SRB2-T](#) [15SRBP-X](#)