

## RP692 Series

## High Voltage/High Current DC Power Line Filter

### RP692 DC TO 2500A & 1200V CHASSIS MOUNT FILTER INVERTER APPLICATION

ROHS COMPLIANT

#### SPECIFICATIONS

|                        |                                                                                                                                                               |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Max. Operating Voltage | : 1200VDC                                                                                                                                                     |
| Ambient Temperature    | : -25 to 60C                                                                                                                                                  |
| Climatic Category      | : 25/100/21                                                                                                                                                   |
| Hipot Rating (L-G)     | : 4700VDC                                                                                                                                                     |
| Terminals (-T)         | : S: 25/50A (M5)<br>75A (M6)<br>100A (M8)<br>150A (M10)<br>B: 250A (5x20)<br>400A (6x25)<br>600A (8x25)<br>800/1000A (8x40)<br>1500A (10x60)<br>2500A (15x70) |
| Safety Approvals       | : cURus, EN60939                                                                                                                                              |

#### PART NUMBER/ ORDERING

| RP692 | -X<br>(Amps) | -Y<br>(Ycap, nF) | -T | Weight<br>LBS (KG)<br>Typ. |
|-------|--------------|------------------|----|----------------------------|
|       | 25           | 100              | S  | 3.0 (1.4)                  |
|       | 50           | 1000             |    | 5.5 (2.5)                  |
|       | 75           | 2000             |    | 5.5 (2.5)                  |
|       | 100          |                  |    | 8.5 (3.9)                  |
|       | 150          |                  |    | 13.0 (5.9)                 |
|       | 250          |                  | B  | 13.0 (5.9)                 |
|       | 400          |                  |    | 17.0 (7.7)                 |
|       | 600          |                  |    | 17.0 (7.7)                 |
|       | 800          |                  |    | 18.0 (8.2)                 |
|       | 1000         |                  |    | 18.0 (8.2)                 |
|       | 1500         |                  |    | 18.0 (8.2)                 |
|       | 2500         |                  |    | 60.0 (27.2)                |

**Note:** Use any combination of -Y with any -X (Amps) rating  
e.g. RP692-25-100-S (25 Amps with 100nF Y-cap)

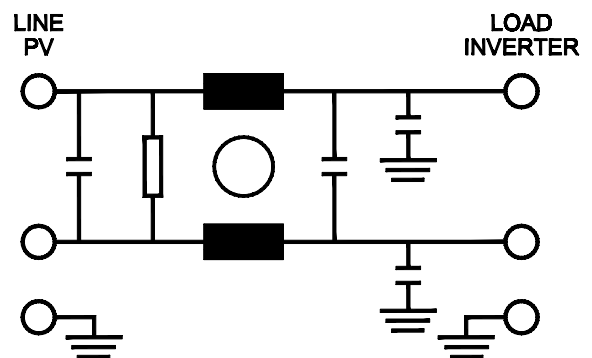
Reference purposes only.  
Specifications are subject to change.  
Consult factory to verify specifications.



#### TYPICAL INSERTION LOSS, dB (50/50ohm)

| FREQ (MHz) | .15 | .5 | 1.0 | 10 | 30 |
|------------|-----|----|-----|----|----|
| CM(dB)     | 65  | 75 | 55  | 45 | 40 |
| DM(dB)     | 65  | 70 | 50  | 35 | 30 |

#### SCHEMATIC



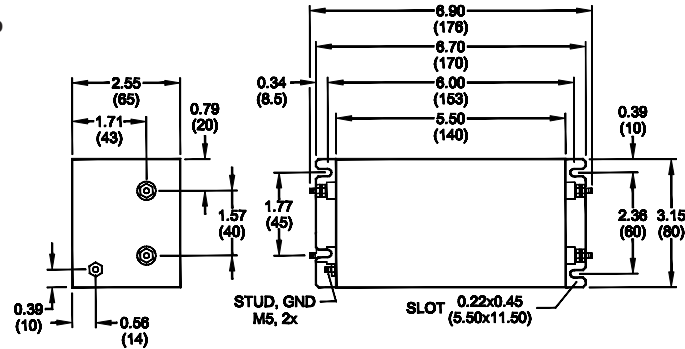
[www.radiuspower.com](http://www.radiuspower.com)

Engineering Assistance: [engg@radiuspower.com](mailto:engg@radiuspower.com)  
Sales: [sales@radiuspower.com](mailto:sales@radiuspower.com)

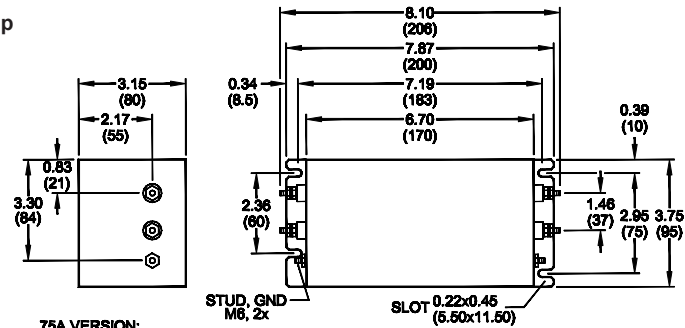
**RP692**

## Mechanical Dimensions

**25 Amp**

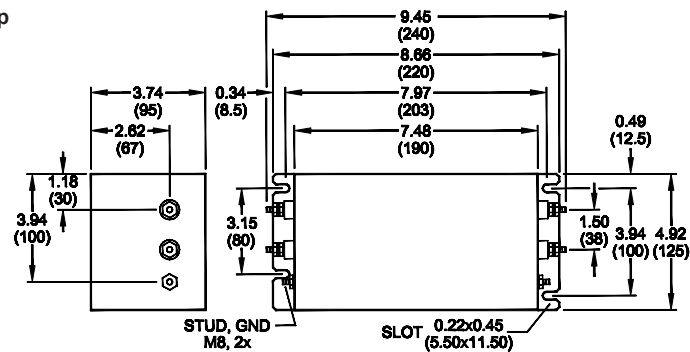


**50/75 Amp**

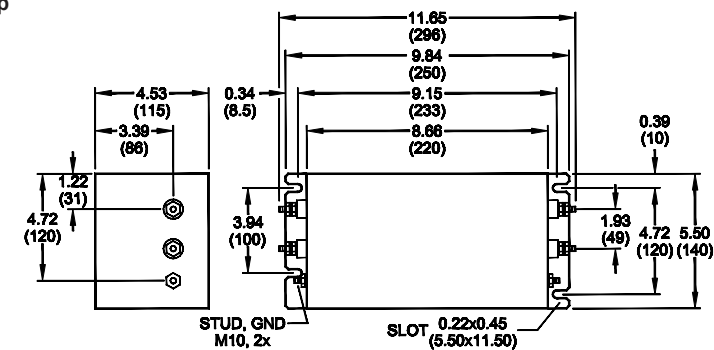


**75A VERSION:**  
**(OVERALL STUD TO STUD DISTANCE: 8.66" (220))**

**100 Amp**



**150 Amp**



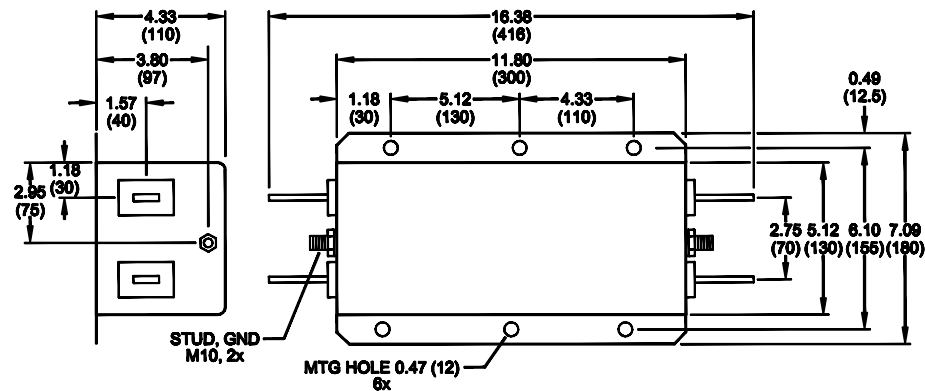
TYPICAL TOLERANCE: +/-0.02 (0.50)

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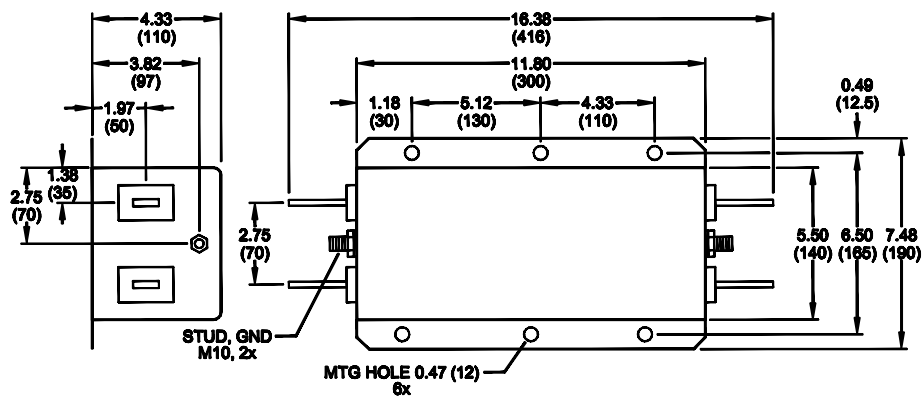
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## RP692 Mechanical Dimensions

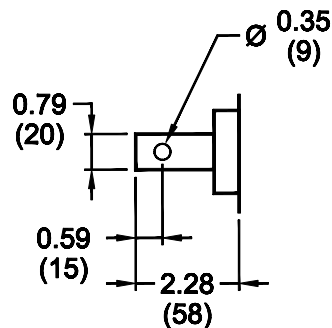
250 Amp



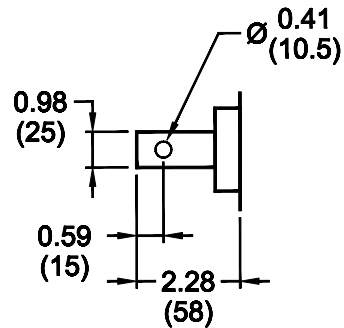
400/600 Amp



250 Amp BUSBAR DETAIL



400/600 Amp BUSBAR DETAIL



400 Amp BUSBAR: 6x25  
600 Amp BUSBAR: 8x25

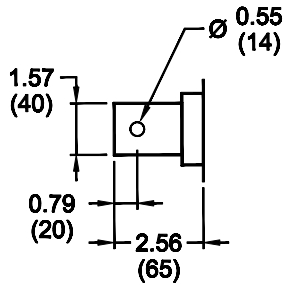
TYPICAL TOLERANCE:  $\pm 0.02$  (0.50)

Reference purposes only.  
Specifications are subject to change.  
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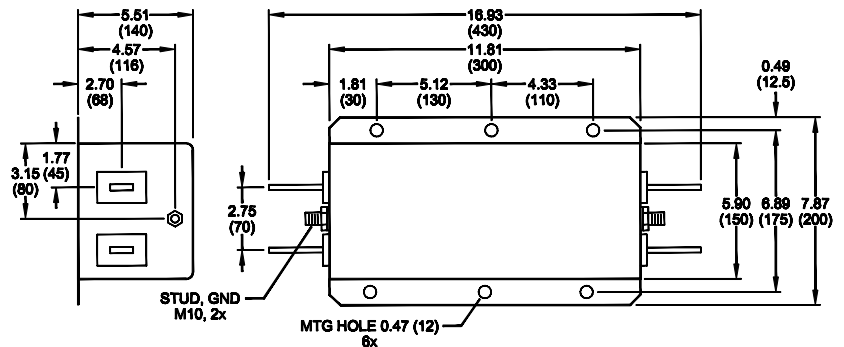
## RP692

## Mechanical Dimensions

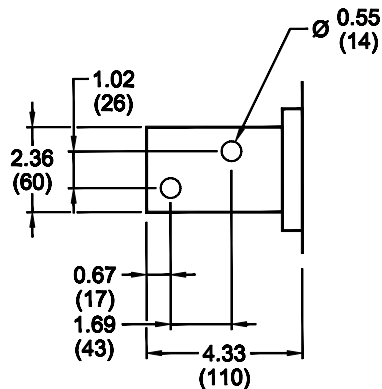
800/1000 Amp BUSBAR DETAIL



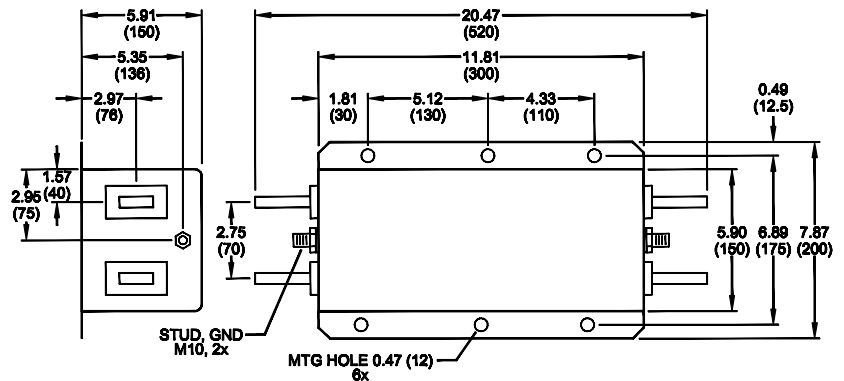
800/1000 Amp



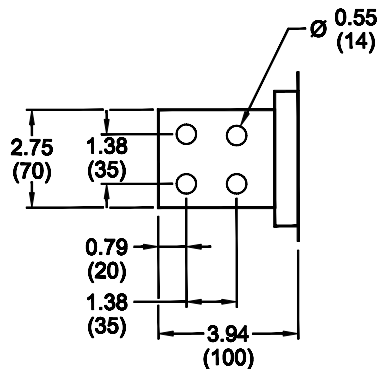
1500 Amp BUSBAR DETAIL



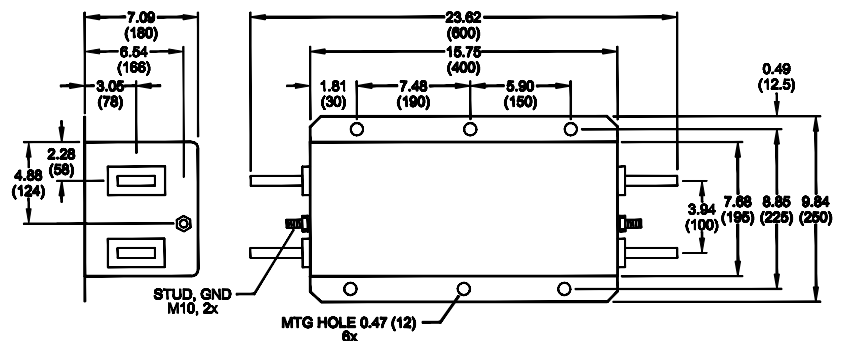
1500 Amp



2500 Amp BUSBAR DETAIL



2500 Amp



TYPICAL TOLERANCE: +/-0.02 (0.50)

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Specifications are subject to change.  
Consult factory to verify specifications.