

## RP327 Series

## Bookshelf, 3-Phase Delta Dual Stage Power Line Filter

### RP327 3 PHASE TO 250A BOOKSHELF DESIGN

ROHS COMPLIANT



### SPECIFICATIONS

|                        |  |
|------------------------|--|
| Operating Freq.        | : 50/60Hz  |
| Usable Freq.           | : DC - 400Hz   |
| Max. Operating Voltage | : 480V +10%  |
| Ambient Temperature    | : -25 to 50C   |
| Climatic Category      | : 25/100/21  |
| Hipot Rating (L-G)     | : 3500VDC  |
| Terminals (-T)         | : S: 7/16/30/42/55A (M5)<br>75/100A (M6)<br>130/180/250A (M10) |
| Safety Approvals       | : UR, CSA, EN60939   |

### LEAKAGE CURRENT

| Y-cap, nF | mA,<br>480V/60Hz |
|-----------|------------------|
| 0         | 0                |
| 10        | 0.1              |
| 100       | 1                |
| 1000      | 10               |
| 2000      | 20               |

### PART NUMBER/ ORDERING

| RP327 | -X<br>(Amps) | -Y<br>(Ycap, nF) | -T | Weight<br>LBS (KG)<br>Typ. |
|-------|--------------|------------------|----|----------------------------|
|       | 7            | 0                | S  | 5.0 (2.3)                  |
|       | 16           | 10               |    | 7.0 (3.2)                  |
|       | 30           | 100              |    | 10.0 (4.5)                 |
|       | 42           | 1000             |    | 13.3 (5.9)                 |
|       | 55           | 2000             |    | 13.5 (6.1)                 |
|       | 75           |                  |    | 14.0 (6.4)                 |
|       | 100          |                  |    | 18.0 (8.2)                 |
|       | 130          |                  |    | 27.0 (12.3)                |
|       | 180          |                  |    | 27.5 (12.5)                |
|       | 250          |                  |    | 31.0 (14.1)                |

**Note:** Use any combination of -Y with any -X (Amps) rating  
e.g. RP327-180-100-S (180 Amps with 100nF Ycap)

### SCHEMATIC



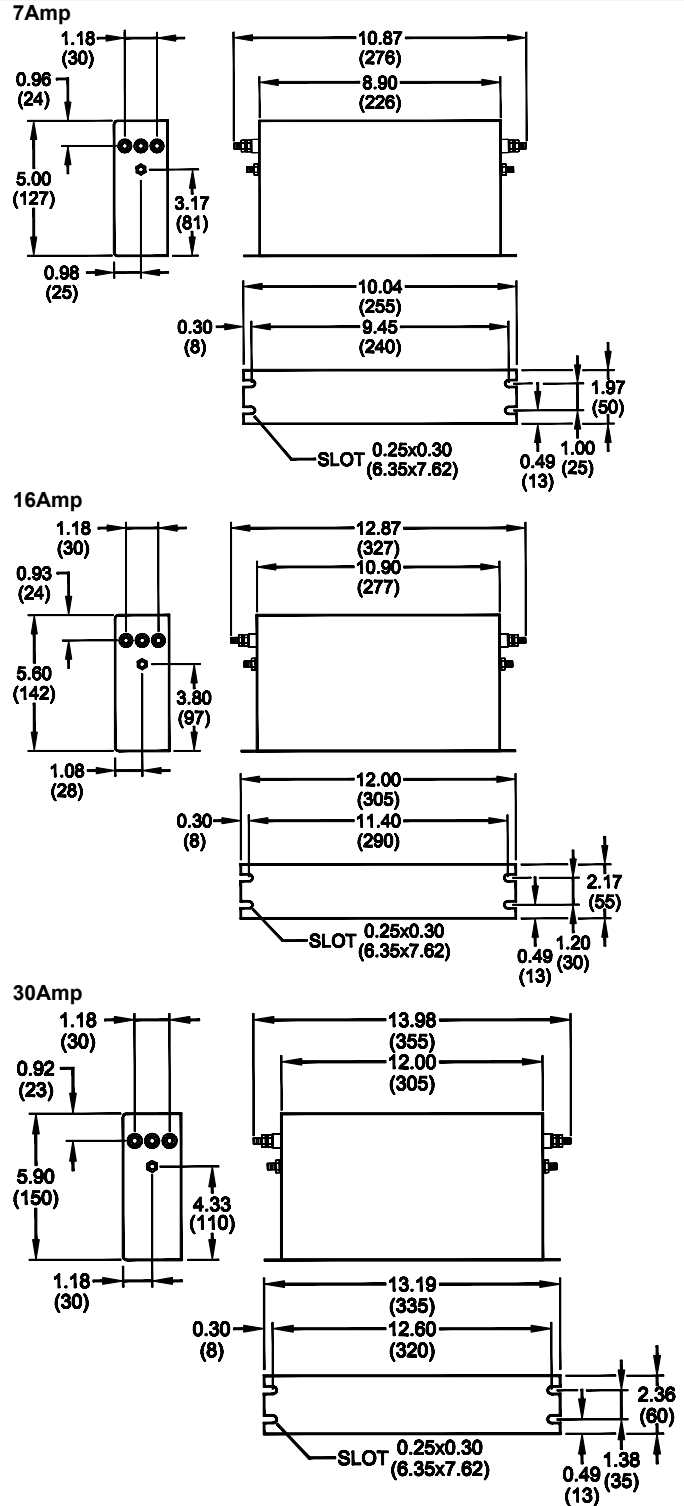
Reference purposes only.  
Specifications are subject to change.  
Consult factory to verify specifications.

**RP327**  
**Typical Insertion Loss, dB (50/50ohm)**

**Mechanical Drawings**

| 7/16 Amp   |     |    |    |    |    |
|------------|-----|----|----|----|----|
| FREQ (MHz) | .15 | .5 | 1  | 10 | 30 |
| CM (dB)    | 65  | 70 | 70 | 55 | 40 |
| DM (dB)    | 55  | 70 | 70 | 70 | 60 |

| 30 Amp     |     |    |    |    |    |
|------------|-----|----|----|----|----|
| FREQ (MHz) | .15 | .5 | 1  | 10 | 30 |
| CM (dB)    | 65  | 70 | 70 | 50 | 30 |
| DM (dB)    | 60  | 70 | 70 | 70 | 50 |



TYPICAL TOLERANCE: +/-0.02 (0.50)

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

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## RP327

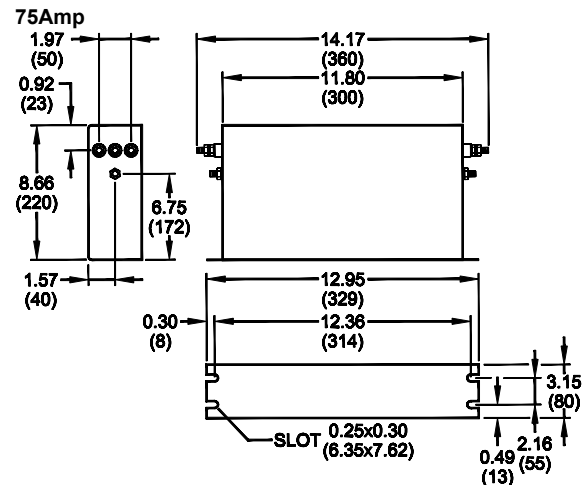
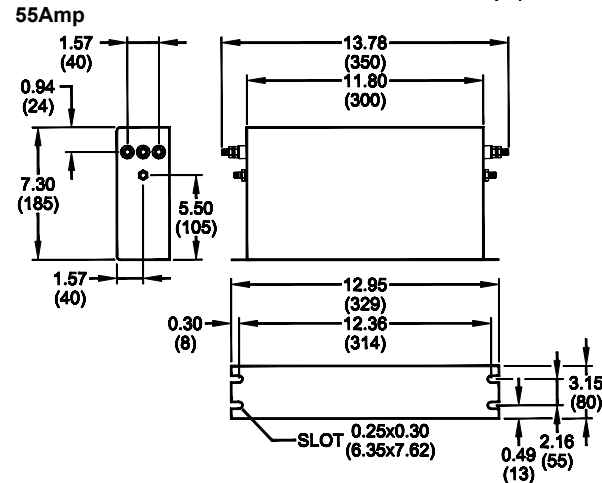
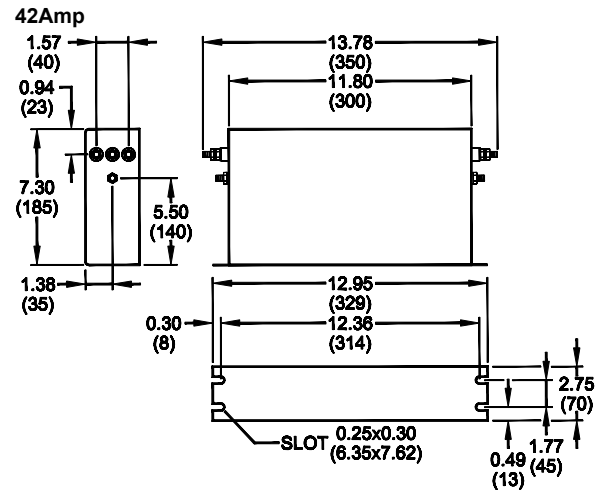
### Typical Insertion Loss, dB (50/50ohm)

### Mechanical Dimensions

| 42 Amp     |     |    |    |    |    |
|------------|-----|----|----|----|----|
| FREQ (MHz) | .15 | .5 | 1  | 10 | 30 |
| CM (dB)    | 70  | 70 | 70 | 70 | 50 |
| DM (dB)    | 55  | 70 | 70 | 65 | 50 |

| 55 Amp     |     |    |    |    |    |
|------------|-----|----|----|----|----|
| FREQ (MHz) | .15 | .5 | 1  | 10 | 30 |
| CM (dB)    | 70  | 70 | 70 | 70 | 50 |
| DM (dB)    | 55  | 70 | 70 | 65 | 50 |

| 75 Amp     |     |    |    |    |    |
|------------|-----|----|----|----|----|
| FREQ (MHz) | .15 | .5 | 1  | 10 | 30 |
| CM (dB)    | 65  | 70 | 70 | 60 | 30 |
| DM (dB)    | 40  | 70 | 70 | 65 | 40 |



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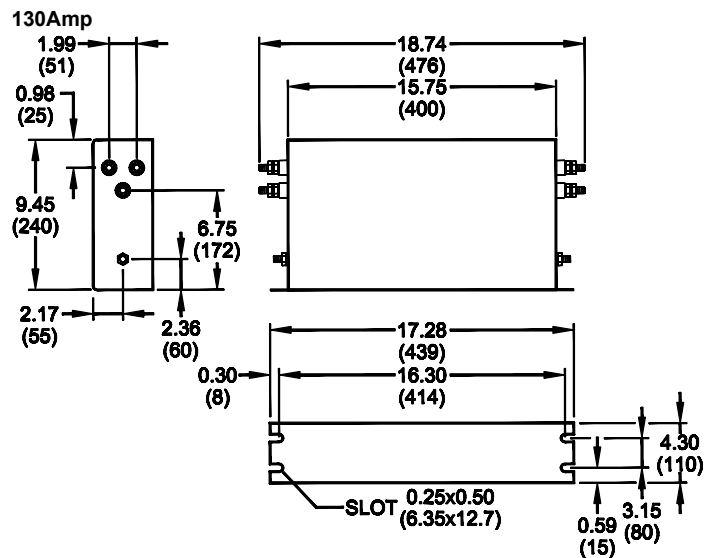
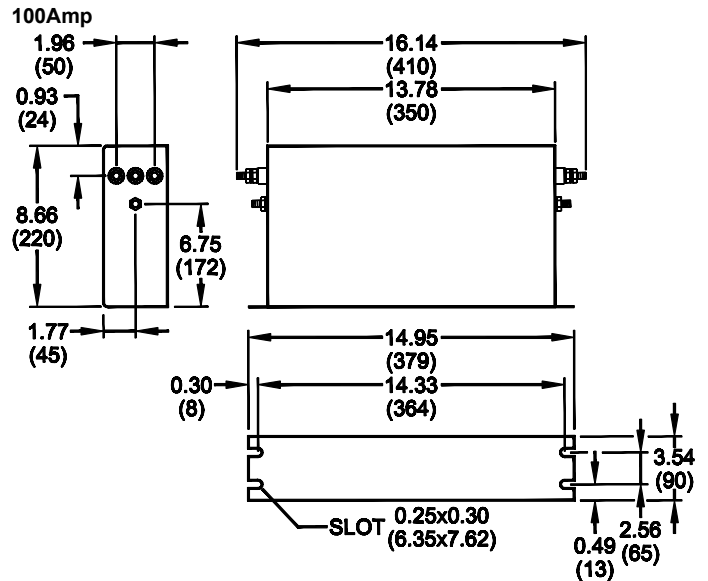
## RP327

### Typical Insertion Loss, dB (50/50ohm)

### Mechanical Dimensions

| 100 Amp    |     |    |    |    |    |
|------------|-----|----|----|----|----|
| FREQ (MHz) | .15 | .5 | 1  | 10 | 30 |
| CM (dB)    | 65  | 70 | 70 | 60 | 30 |
| DM (dB)    | 40  | 70 | 70 | 65 | 40 |

| 130 Amp    |     |    |    |    |    |
|------------|-----|----|----|----|----|
| FREQ (MHz) | .15 | .5 | 1  | 10 | 30 |
| CM (dB)    | 52  | 70 | 65 | 40 | 25 |
| DM (dB)    | 45  | 70 | 70 | 60 | 50 |



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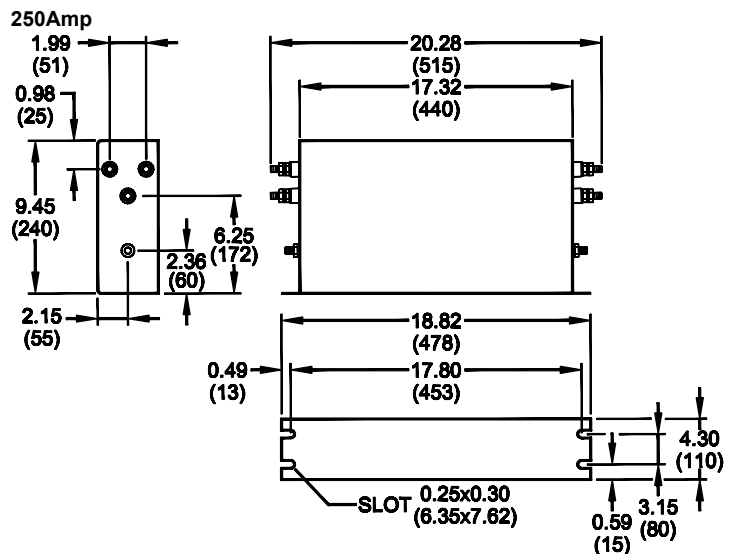
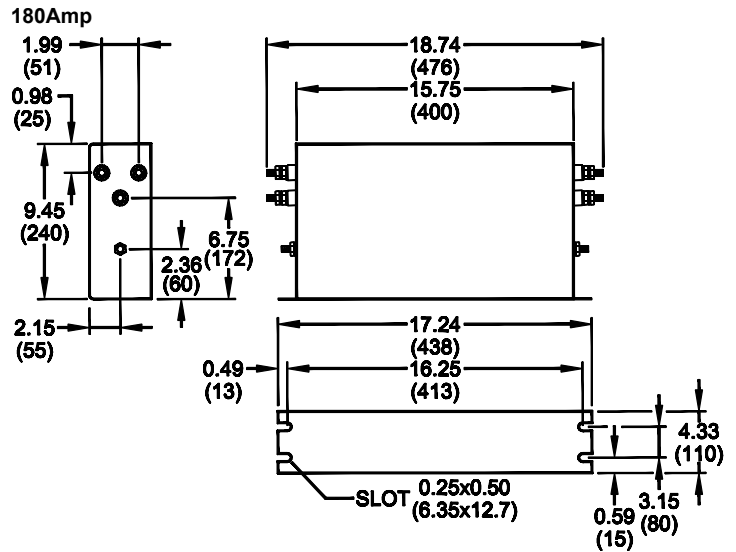
## RP327

### Typical Insertion Loss, dB (50/50ohm)

### Mechanical Dimensions

| 180 Amp    |     |    |    |    |    |
|------------|-----|----|----|----|----|
| FREQ (MHz) | .15 | .5 | 1  | 10 | 30 |
| CM (dB)    | 55  | 70 | 70 | 40 | 20 |
| DM (dB)    | 55  | 70 | 60 | 45 | 25 |

| 250 Amp    |     |    |    |    |    |
|------------|-----|----|----|----|----|
| FREQ (MHz) | .15 | .5 | 1  | 10 | 30 |
| CM (dB)    | 65  | 70 | 70 | 40 | 26 |
| DM (dB)    | 65  | 65 | 60 | 45 | 38 |



TYPICAL TOLERANCE: +/-0.02 (0.50)

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