

## RP100 Series

## Compact Single Stage Power Line Filter

### RP100 COMPACT TO 10A CHASSIS MOUNT FILTER

ROHS COMPLIANT



### SPECIFICATIONS

|                        |                  |
|------------------------|------------------|
| Operating Freq.        | : 50/60Hz        |
| Usable Freq.           | : DC - 400Hz     |
| Max. Operating Voltage | : 250V +10%      |
| Ambient Temperature    | : -25 to 40C     |
| Climatic Category      | : 25/100/21      |
| Hipot Rating (L-G)     | : 2700VDC        |
| Terminals (-T)         | : QD: 0.25 Tabs  |
| Safety Approvals       | : cURus, EN60939 |
| Typ. Weight, LBS (KG)  | : 0.3 (0.1)      |

### LEAKAGE CURRENT

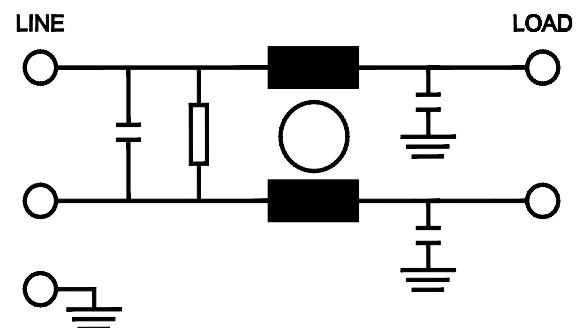
| Y-cap, nF | mA,<br>120V/60Hz | mA,<br>250V/60Hz |
|-----------|------------------|------------------|
| 0         | 0                | 0                |
| .47       | 0.04             | 0.08             |
| 1         | 0.09             | 0.18             |
| 2.2       | 0.2              | 0.4              |
| 4.7       | 0.4              | 0.8              |
| 10        | 0.9              | 1.8              |

### PART NUMBER/ ORDERING

| RP100 | -X<br>Amps | -Y<br>(Ycap, nF) | -T  |
|-------|------------|------------------|-----|
|       | 3          | 0                | -QD |
|       | 6          | .47              |     |
|       | 10         | 1                |     |
|       |            | 2.2              |     |
|       |            | 4.7              |     |
|       |            | 10               |     |

**Note:** Use any combination of -Y with any -X (Amps) rating  
e.g. RP100-6-2.2-QD (6 Amps with 2.2 nF Ycap)

### SCHEMATIC



## RP100

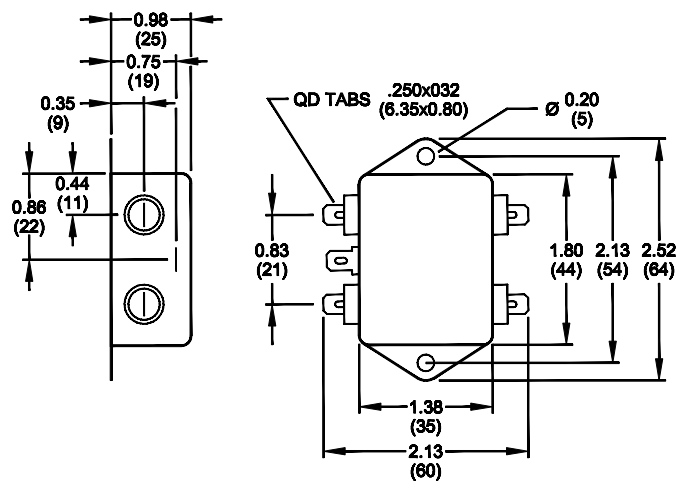
Typical Insertion Loss, dB (50/50ohm)

Mechanical Dimensions

| 3 Amp      |     |    |     |    |    |
|------------|-----|----|-----|----|----|
| FREQ (MHz) | .15 | .5 | 1.0 | 10 | 30 |
| CM(dB)     | 38  | 42 | 45  | 42 | 34 |
| DM(dB)     | 15  | 24 | 34  | 60 | 60 |

| 6 Amp      |     |    |     |    |    |
|------------|-----|----|-----|----|----|
| FREQ (MHz) | .15 | .5 | 1.0 | 10 | 30 |
| CM(dB)     | 30  | 40 | 45  | 45 | 36 |
| DM(dB)     | 15  | 22 | 28  | 60 | 70 |

| 10 Amp     |     |    |     |    |    |
|------------|-----|----|-----|----|----|
| FREQ (MHz) | .15 | .5 | 1.0 | 10 | 30 |
| CM(dB)     | 20  | 30 | 34  | 56 | 50 |
| DM(dB)     | 15  | 22 | 28  | 56 | 60 |



TYPICAL TOLERANCE: +/-0.02 (0.50)