

# F1400 RFI Filters

High Performance

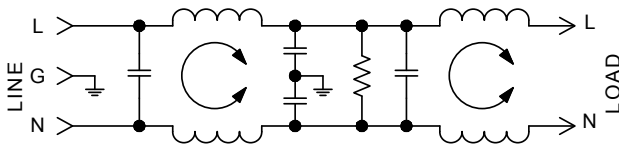
SINGLE PHASE FILTERS



## Features:

- High Peak Current Design — High Insertion Loss for Switching Power Supply Emissions
- Low-Leakage Current
- Compact Case Sizes in 6 and 10Amp Models
- Available with Integral IEC Connector in 3 and 6Amp Models

## F1400 Simplified Schematic



## Specifications:

**Rated Voltage:** 250VAC Maximum - 50/60 Hz

**Rated Current:**

|        |        |
|--------|--------|
| 115VAC | 250VAC |
| 3A     | 1.5A   |
| 6A     | 4A     |
| 10A    | 6A     |

**Current Overload:** 6X for 8 seconds

### Hi-Pot Test (1 min):

|                |         |
|----------------|---------|
| Line to Ground | 1500VAC |
| Line to Line   | 1768VDC |

**Insulation Resistance:**  $9 \times 10^9 \Omega$  at 100VDC

**Ambient Temperature:** 40°C Max. at rated current

**Humidity Range:** 0% to 95% R.H.

### Termination:

- A: QC – Quick Connect
- B: Wire
- C: IEC Receptacle

### Maximum Leakage Current:

|                     |              |
|---------------------|--------------|
| Each Line to Ground | <b>F1400</b> |
| 115VAC, 60Hz:       | 0.25mA       |
| 250VAC, 50Hz:       | 0.40mA       |

### Agency Approvals:

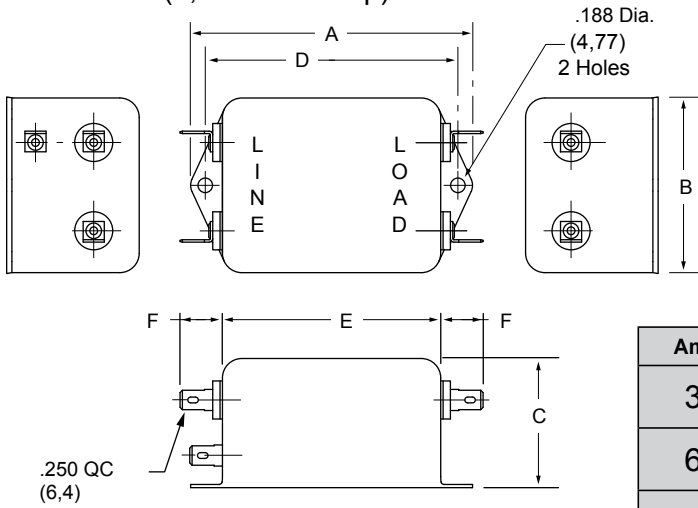


| Nominal Current Rating | Part Number                         | Termination Line/Load        | MINIMUM INSERTION LOSS - dB (50 ohm Circuit) |                 |     |     |     |    |    |
|------------------------|-------------------------------------|------------------------------|--|-----------------|-----|-----|-----|----|----|
|                        |                                     |                              | MODE   | Frequency - MHz |     |     |     |    |    |
|                        |                                     |                              |  | .15             | .50 | 1.0 | 5.0 | 10 | 30 |
| 3A                     | F1400AA03<br>F1400BB03<br>F1400CA03 | QC/QC<br>Wire/Wire<br>IEC/QC | Common                                       | 58              | 65  | 65  | 65  | 60 | 44 |
|                        |                                     |                              | Differential                                 | 40              | 60  | 65  | 65  | 65 | 60 |
| 6A                     | F1400AA06<br>F1400BB06<br>F1400CA06 | QC/QC<br>Wire/Wire<br>IEC/QC | Common                                       | 58              | 65  | 65  | 65  | 60 | 54 |
|                        |                                     |                              | Differential                                 | 36              | 55  | 60  | 60  | 55 | 50 |
| 10A                    | F1400AA10<br>F1400BB10              | QC/QC<br>Wire/Wire           | Common                                       | 56              | 65  | 65  | 65  | 60 | 54 |
|                        |                                     |                              | Differential                                 | 40              | 50  | 60  | 65  | 65 | 60 |

NOTE: Other combinations of terminals may be specified on special order.



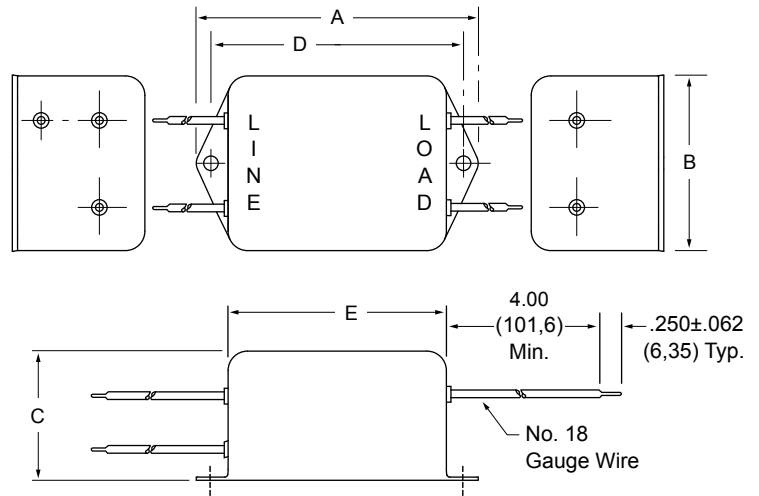
### F1400AA (3, 6 and 10Amp) Dimensions



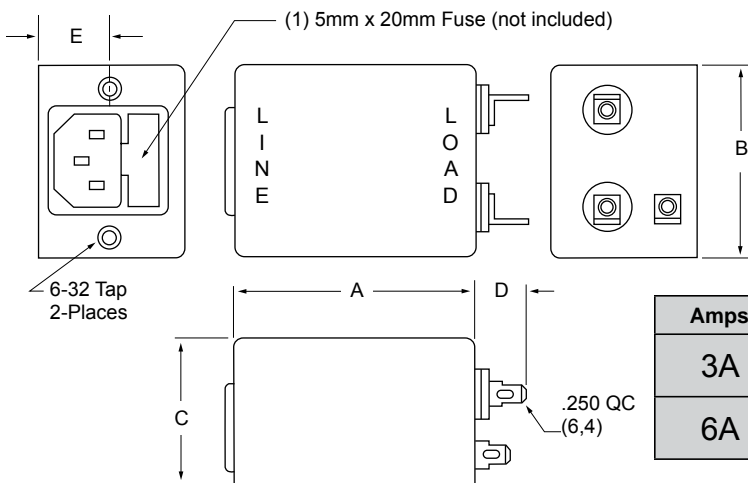
| Amps | A               | B               | C               | D                | E               | F              |
|------|-----------------|-----------------|-----------------|------------------|-----------------|----------------|
| 3A   | 3.310<br>(84,1) | 2.000<br>(50,8) | 1.500<br>(38,2) | 2.940<br>(74,7)  | 2.500<br>(63,5) | .550<br>(14,0) |
| 6A   | 3.310<br>(84,1) | 2.000<br>(50,8) | 1.500<br>(38,2) | 2.940<br>(74,7)  | 2.500<br>(63,5) | .550<br>(14,0) |
| 10A  | 4.70<br>(119,4) | 2.250<br>(57,1) | 1.750<br>(44,4) | 4.250<br>(107,9) | 3.750<br>(95,3) | .550<br>(14,0) |

### F1400BB (3, 6 and 10Amp) Dimensions

| Amps | A               | B               | C               | D                | E               |
|------|-----------------|-----------------|-----------------|------------------|-----------------|
| 3A   | 3.310<br>(84,1) | 2.000<br>(50,8) | 1.500<br>(38,1) | 2.940<br>(74,7)  | 2.500<br>(63,5) |
| 6A   | 3.310<br>(84,1) | 2.000<br>(50,8) | 1.500<br>(38,1) | 2.940<br>(74,7)  | 2.500<br>(63,5) |
| 10A  | 4.70<br>(119,4) | 2.250<br>(57,1) | 1.750<br>(44,4) | 4.250<br>(107,9) | 3.750<br>(95,3) |



### F1400CA (3 and 6Amp) Dimensions



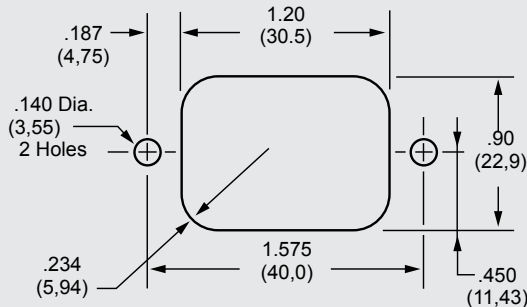
Refer to Page 40  
for Standard  
Mounting Cutouts

| Amps | A               | B               | C               | D              | E              |
|------|-----------------|-----------------|-----------------|----------------|----------------|
| 3A   | 2.880<br>(73,1) | 2.120<br>(53,8) | 1.500<br>(38,1) | .550<br>(14,0) | .565<br>(14,3) |
| 6A   | 2.880<br>(73,1) | 2.120<br>(53,8) | 1.500<br>(38,1) | .550<br>(14,0) | .565<br>(14,3) |

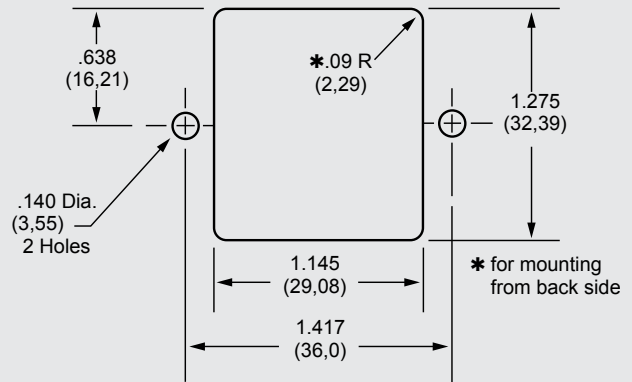


# Standard Mounting Cutouts

## F1200CA, F1300CA, F1400CA, F1500CA, F1600CA, F1700CA



## F1500FA, F1600FA,



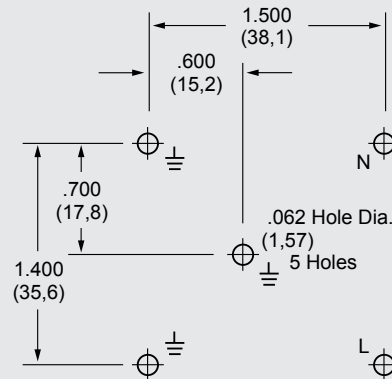
### How to Order

The Curtis part numbering system is made up of four elements. Each element denotes a specific requirement (mechanical or electrical) which, when properly sequenced, fully identifies the required catalog filter. As shown, the first five alpha/numeric characters denote the series type; the sixth character (alpha) denotes the type of line termination; the seventh character (alpha) denotes the type of load termination; the last two characters (numeric) denote the current rating.

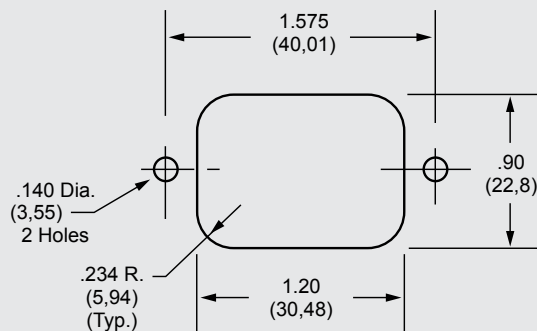
Compose your part number as follows: Select the series required, add two alpha character for the line and load termination, followed by two numeric characters for the required current rating. For example, F1100AB06 completely identifies an F1100 series filter with quick connects on line side and wire leads on load side, with a 6-amp rating.

SINGLE PHASE FILTERS

## F1300CP, F1600CP



## F5500/5600/5700 SERIES



| F1100   | X   | X   | X  |
|---|---|---|--|
| SERIES  | LINE TERMINATION  | LOAD TERMINATION  | CURRENT RATING   |
| PE = Power Entry<br>PM = Medical<br>Power Entry | A = Quick Connects<br>B = Wire Leads<br>C = IEC Connector<br>D = Screw Terminals<br>(20 & 30 amp only)<br>F = Fused IEC<br>P = Printed Circuit Pins<br>W = Dual Fused IEC<br>J = Switched IEC | A = Quick Connects<br>B = Wire Leads<br>D = Screw Terminals<br>(20 & 30 amp only)<br>P = Printed Circuit Pins<br>S = Solder Tab | 01 = 1 Amp<br>03 = 3 Amps<br>06 = 6 Amps<br>10 = 10 Amps<br>15 = 15 Amps<br>20 = 20 Amps<br>30 = 30 Amps |

