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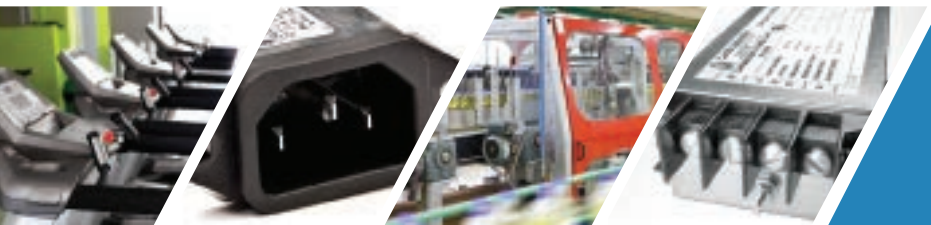
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Innovative Engineering Solutions



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Curtis Industries Filter Selection Guide

| Filter Series | PERFORMANCE RELATIVE ATTENUATION | | MAXIMUM LEAKAGE CURRENT | | PACKAGE/TERMINATION | | | | | | | | Catalog Page Number | | |
|---------------------|-------------------------------------|--|----------------------------|---------------|---------------------|------|--------|--------------|-------------|--------|-----------|-------|---------------------------|--------------|----|
| | Common Mode | Differential Mode | mA @115VAC | mA @250VAC | Wire | Q.C. | I.E.C. | Fused I.E.C. | Volt Select | Switch | P.C. Term | Screw | | Solder Term. | |
| | | | | | | | | | | | | | | | |
| SINGLE PHASE | F1100/1199 | •• | •• | 0.5 | 1.0 | • | • | | | | | • | • | • | 4 |
| | F1150 | • | • | 0.25 | 0.40 | • | • | | | | | • | • | • | 4 |
| | F1200/1299 | •• | •• | 0.5 | 1.0 | • | • | • | | | | • | • | • | 7 |
| | F1250 | • | •• | 0.25 | 0.40 | • | • | • | | | | • | • | • | 7 |
| | F1300/1399 | •••• | •• | 0.5 | 1.0 | • | • | • | | | | • | • | • | 11 |
| | F1350 | ••• | •• | 0.25 | 0.40 | • | • | • | | | | • | • | • | 11 |
| | F1900 | • | • | 0.25 | 0.40 | | • | | | | | | • | • | 15 |
| | F1400 | ••••• | ••••• | 0.25 | 0.40 | • | • | • | | | | | • | • | 16 |
| | F1500 | •••• | ••• | 0.25 | 0.40 | | • | • | • | | | | • | • | 18 |
| | F1600 | ••••• | ••• | 0.25 | 0.40 | • | • | • | • | | | • | • | • | 20 |
| | F1700/1799 | •• | •••• | 0.5 | 1.0 | • | • | • | | | | • | • | • | 22 |
| | F1760/1700/1780 | •••• | •••• | 0.5 | 1.0 | • | • | | | | | • | • | • | 24 |
| | F2800 | ••••• | ••••• | 0.25 | 0.50 | • | • | | | | | | • | • | 26 |
| | F5100 | •• | •• | 0.25 | 0.50 | | | • | | | | | • | • | 28 |
| | F5200 | •• | •• | 0.25 | 0.50 | | | | • | | | | • | • | 30 |
| | F5500 | •••• | •••• | 0.25 | 0.50 | | | • | | | | | • | • | 32 |
| | F5600 | ••••• | •••• | 0.50 | 1.20 | | | • | • | | | | • | • | 34 |
| | F5700 | •••• | ••••• | 0.50 | 1.20 | | | • | | | | | • | • | 36 |
| | F5900 | ••••• | ••••• | 0.50 | 1.20 | | | • | • | • | | | • | • | 38 |
| POWER ENTRY | F2199/2200 | • | • | 0.25 | 0.40 | | • | • | | | | | • | • | 44 |
| | F2300 | ••• | •• | 0.25 | 0.40 | | • | • | | | | | • | • | 45 |
| | F2400/2500 | • | • | 0.25 | 0.40 | | • | • | | | | | • | • | 46 |
| | F2600 | • | • | 0.25 | 0.40 | | • | | • | | • | • | • | • | 48 |
| | F2700 | ••••• | ••••• | 0.25 | 0.40 | • | • | • | • | | • | | • | • | 50 |
| | FPE7 | • | • | 0.25 | 0.40 | | • | • | • | • | | | • | • | 52 |
| | FPE8 | • | • | 0.25 | 0.40 | | • | • | • | | • | | • | • | 52 |
| | FPE1 | •• | •• | 0.25 | 0.40 | | • | • | • | • | | | • | • | 56 |
| | F3480/F3600 | •••• | •••• | | | • | • | | | | | | • | • | 60 |
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| | FD02 | (See Section on DC filters for more information) | | | | | | | | | | | 68 | | |
| | FD1 | (See Section on DC filters for more information) | | | | | | | | | | | 69 | | |
| | FD2 | (See Section on DC filters for more information) | | | | | | | | | | | 70 | | |
| | FD3 | (See Section on DC filters for more information) | | | | | | | | | | | 70 | | |
| MEDICAL | F3099 | • | •• | 0.002 | 0.005 | • | • | | | | | | • | • | 72 |
| | F3000/3100/3200/3400/3500 | • | •• | 0.002 | 0.005 | | • | • | | | | | • | • | 73 |
| | F3300 | • | • | 0.015 | 0.025 | | • | | • | | • | • | • | • | 75 |
| | FPM7 | • | • | 0.002 | 0.005 | | • | • | • | • | | | • | • | 77 |
| | FPM8 | • | • | 0.002 | 0.005 | | • | • | • | | • | | • | • | 77 |
| | FPM1 | •• | •• | 0.002 | 0.005 | | • | • | • | • | • | | • | • | 81 |



F1100/F1150/F1199 RFI Filters

General Purpose

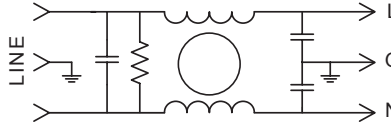
SINGLE PHASE FILTERS



Features:

- Most Economical Design
- Designed for General Purpose, Common Mode Applications
- Available in Standard (F1100) and Low-Leakage (F1150) (F1160) (F1170) (F1180) (F1190) (F1199) Models

F1100/F1150/F1199 Simplified Schematic



| 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 |
| 1A | F1100AA01 F1100BB01 | QC/QC Wire/Wire | Common Differential | 20 | 35 | 43 | 52 55 | 55 65 | 50 50 |
| | F1150AA01 F1150BB01 | QC/QC Wire/Wire | Common Differential | 20 | 30 | 37 | 50 55 | 50 65 | 50 50 |
| | F1199AA01 | QC/QC | Common Differential | 32 5 | 45 14 | 45 23 | 43 47 | 43 50 | 40 45 |
| 2A | F1199AA02 F1199BB02 | QC/QC Wire/Wire | Common Differential | 24 5 | 35 13 | 43 16 | 45 45 | 45 50 | 40 45 |
| | 3A | F1100AA03 F1100BB03 F1100PP03 | QC/QC Wire/Wire PC/PC | Common Differential | 20 | 35 | 43 | 52 55 | 55 64 |
| F1150AA03 F1150BB03 | | QC/QC Wire/Wire | Common Differential | 20 | 30 | 37 | 50 55 | 50 64 | 50 46 |
| F1199AA03 F1199BB03 | | QC/QC Wire/Wire | Common Differential | 20 5 | 30 12 | 38 14 | 48 38 | 48 44 | 44 42 |
| 6A | F1100AA06 F1100BB06 | QC/QC Wire/Wire | Common Differential | 10 | 22 2 | 30 5 | 46 51 | 50 57 | 45 49 |
| | F1150AA06 F1150BB06 | QC/QC Wire/Wire | Common Differential | 10 | 20 2 | 27 5 | 45 51 | 45 57 | 45 49 |
| | F1199AA06 F1199BB06 | QC/QC Wire/Wire | Common Differential | 9 5 | 20 12 | 28 14 | 42 33 | 50 42 | 47 42 |
| 10A | F1100AA10 F1100BB10 | QC/QC Wire/Wire | Common Differential | 10 | 22 | 30 2 | 46 27 | 50 47 | 45 50 |
| | F1150AA10 F1150BB10 | QC/QC Wire/Wire | Common Differential | 10 | 20 | 27 2 | 45 27 | 45 47 | 45 50 |
| | F1199AA10 F1199BB10 F1199DD10 | QC/QC Wire/Wire Screw/Screw | Common Differential | 9 5 | 20 12 | 25 14 | 38 33 | 42 42 | 40 42 |
| 20A | F1100AA20 F1100DD20 | QC/QC Screw/Screw | Common Differential | 8 | 18 | 22 5 | 36 22 | 42 46 | 45 60 |
| | F1150AA20 F1150DD20 | QC/QC Screw/Screw | Common Differential | 8 | 15 | 20 5 | 32 22 | 38 46 | 45 60 |
| | F1199AA20 F1199DD20 | QC/QC Screw/Screw | Common Differential | 10 5 | 20 12 | 28 15 | 35 30 | 38 40 | 40 40 |
| 30A | F1199DD30 | Screw/Screw | Common Differential | 13 5 | 23 12 | 30 15 | 35 30 | 38 40 | 40 40 |

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

Specifications:

Rated Voltage: 250VAC Maximum - 50/60 Hz

| | | |
|-----------------------|--------|--------|
| Rated Current: | 115VAC | 250VAC |
| | 1A | 1A |
| | 2A | 1.5A |
| | 3A | 2.5A |
| | 6A | 4A |
| | 10A | 6A |
| | 20A | 10A |
| | 30A | 15A |

Current Overload: 6X for 8 seconds

| | | |
|-----------------------------|--------------------|--------------|
| Hi-Pot Test (1 min): | F1100/F1150 | F1199 |
| Line to Ground: | 1500VAC | 1500VAC |
| Line to Line: | 1768VDC | 1450VDC |

Insulation Resistance: 9 x 10⁹ Ω at 100VDC

Ambient Temperature: 40°C Max. at rated current

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

Termination:

- A: QC – Quick Connect
- B: Wire
- D: Screw
- P: PCB Pins

Maximum Leakage Current:

| | | | |
|---------------------|--------|--------|--------|
| Each Line to Ground | F1100 | F1150 | F1199 |
| 115VAC, 60Hz: | 0.40mA | 0.25mA | 0.25mA |
| 250VAC, 50Hz: | .75mA | 0.40mA | 0.45mA |

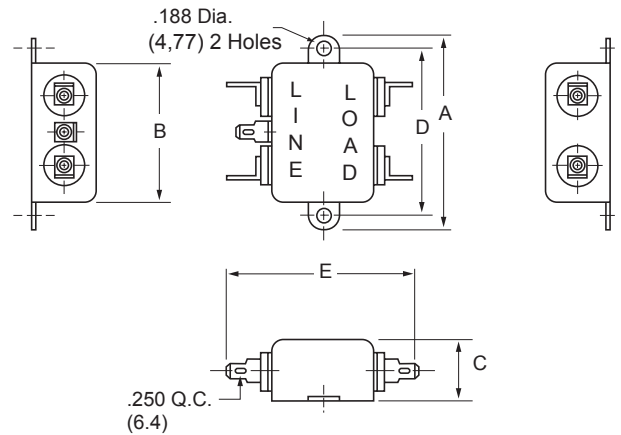
Agency Approvals:



F1100AA/F1150AA

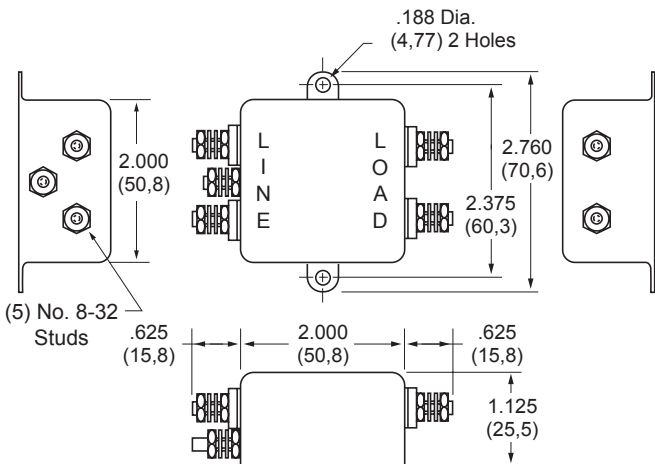
(1, 3, 6, 10 and 20Amp) Dimensions

| Amps | A | B | C | D | E |
|------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 1A | 2.500 (63,5) | 1.750 (44,5) | .625 (15,8) | 2.125 (53,9) | 1.425 (36,2) |
| 3A | 2.500 (63,5) | 1.750 (44,5) | .750 (19,1) | 2.125 (53,9) | 1.8 (45,8) |
| 6A | 2.500 (63,5) | 1.750 (44,5) | .750 (19,1) | 2.125 (53,9) | 1.8 (45,8) |
| 10A | 2.500 (63,5) | 1.750 (44,5) | 1.125 (28,5) | 2.125 (53,9) | 1.8 (45,8) |
| 20A | 2.760 (70,6) | 2.000 (60,8) | 1.125 (28,5) | 2.375 (60,3) | 2.550 (64,8) |



F1100DD/F1150DD

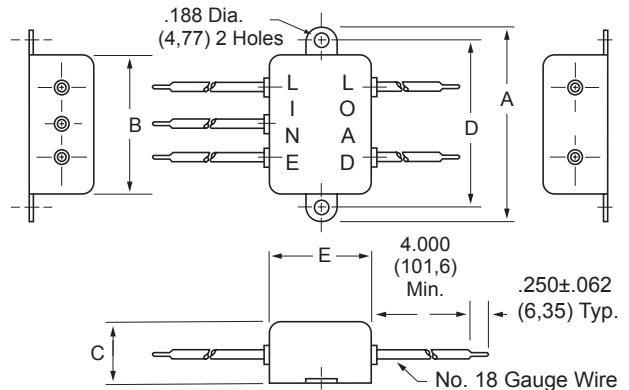
(20Amp Only) Dimensions



F1100BB/FB1150BB

(1, 3, 6 and 10Amp) Dimensions

| Amps | A | B | C | D | E |
|------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 1A | 2.500 (63,5) | 1.750 (44,5) | .625 (15,8) | 2.125 (53,9) | .875 (22,2) |
| 3A | 2.500 (63,5) | 1.750 (44,5) | .750 (19,1) | 2.125 (53,9) | 1.250 (31,8) |
| 6A | 2.500 (63,5) | 1.750 (44,5) | .750 (19,1) | 2.125 (53,9) | 1.250 (31,8) |
| 10A | 2.500 (63,5) | 1.750 (44,5) | 1.125 (28,5) | 2.125 (53,9) | 1.250 (31,8) |



Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses are metric equivalents.

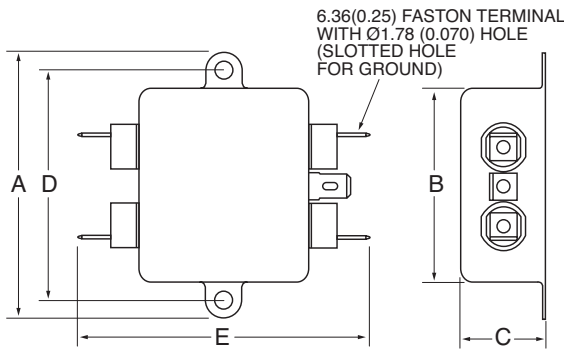
F1100/F1150/F1199 RFI Filters (continued)

General Purpose

SINGLE PHASE FILTERS

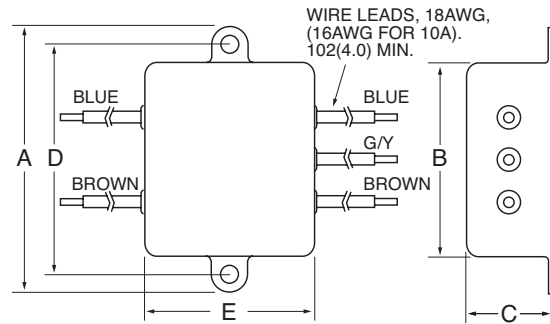
F1199AA (1, 2, 3, 6, 10 and 20Amp) Dimensions

| Amps | A | B | C | D | E |
|------|----------------|----------------|----------------|------------------|----------------|
| 1A | 2.53 (64,3) | 1.82 (46,2) | 0.66 (16,8) | 2.126 (54,0) | 2.25 (57,2) |
| 2A | 2.53 (64,3) | 1.82 (46,2) | 0.66 (16,8) | 2.126 (54,0) | 2.25 (57,2) |
| 3A | 2.53 (64,3) | 1.82 (46,2) | 0.78 (19,8) | 2.126 (54,0) | 2.61 (66,3) |
| 6A | 2.53 (64,3) | 1.82 (46,2) | 0.78 (19,8) | 2.126 (54,0) | 2.61 (66,3) |
| 10A | 2.53 (64,3) | 1.82 (46,2) | 1.16 (29,5) | 2.126 (54,0) | 2.61 (66,3) |
| 20A | 2.81 (71,4) | 2.07 (52,6) | 1.16 (29,5) | 2.375 (60,33) | 3.36 (85,3) |



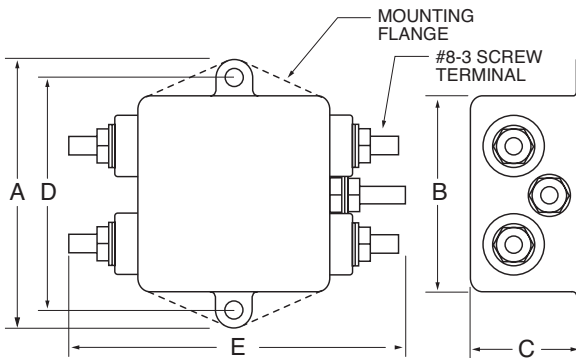
F1199BB (2, 3, 6 and 10Amp) Dimensions

| Amps | A | B | C | D | E |
|------|----------------|----------------|----------------|-----------------|----------------|
| 2A | 2.53 (64,3) | 1.82 (46,2) | 0.66 (16,8) | 2.126 (54,0) | 0.96 (24,4) |
| 3A | 2.53 (64,3) | 1.82 (46,2) | 0.78 (19,8) | 2.126 (54,0) | 1.32 (33,5) |
| 6A | 2.53 (64,3) | 1.82 (46,2) | 0.78 (19,8) | 2.126 (54,0) | 1.32 (33,5) |
| 10A | 2.53 (64,3) | 1.82 (46,2) | 1.16 (29,5) | 2.126 (54,0) | 1.32 (33,5) |

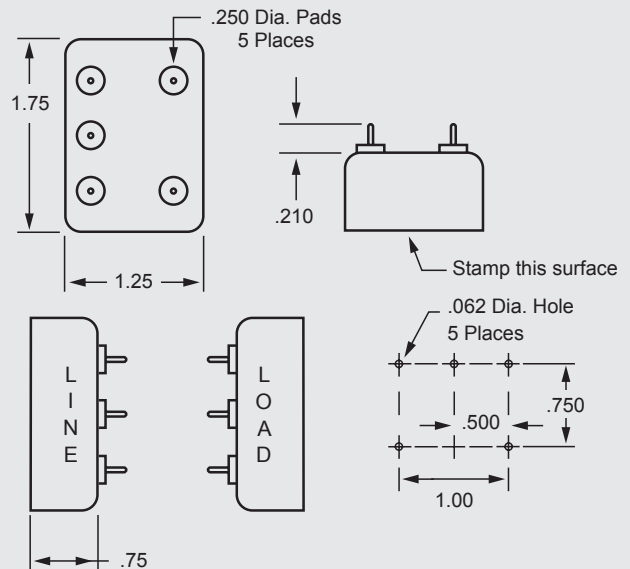


F1199DD (10, 20 and 30Amp) Dimensions

| Amps | A | B | C | D | E |
|------|-----------------|----------------|----------------|------------------|-----------------|
| 10A | 2.53 (64,3) | 1.82 (46,2) | 1.16 (29,5) | 2.126 (54,0) | 2.72 (69,1) |
| 20A | 2.81 (71,4) | 2.07 (52,6) | 1.16 (29,5) | 2.375 (60,33) | 3.46 (87,9) |
| 30A | 4.20 (106,7) | 3.38 (85,9) | 1.53 (38,9) | 3.75 (95,25) | 5.34 (135,6) |



F1100PP Recommended PC Mounting



F1200/F1250/F1299 RFI Filters

Features:

- Designed for General Purpose Common Mode and Differential Mode Applications
- Higher Line-to-Line Capacitance for Protection from Pulsed, Intermittent, or Continuous RFI
- Available in Standard (F1200) and Low-Leakage (F1250) (F1260) (F1270) (F1280) (F1299) Models
- Available with Integral IEC Connector up to 10Amps



General Purpose

SINGLE PHASE FILTERS

| 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 |
| 1A | F1200AA01 | QC/QC | Common | 20 | 35 | 43 | 52 | 55 | 50 |
| | F1200BB01 | Wire/Wire | Differential | 4 | 38 | 59 | 66 | 62 | 54 |
| | F1250AA01 | QC/QC | Common | 20 | 30 | 37 | 50 | 50 | 50 |
| | F1250BB01 | Wire/Wire | Differential | 4 | 38 | 59 | 66 | 62 | 54 |
| 2A | F1299AA02 | QC/QC | Common | 24 | 35 | 43 | 45 | 45 | 40 |
| | F1299BB02 | Wire/Wire | Differential | 6 | 35 | 50 | 55 | 50 | 45 |
| 3A | F1200AA03 | QC/QC | Common | 20 | 35 | 43 | 52 | 55 | 50 |
| | F1200BB03 | Wire/Wire | Differential | 4 | 38 | 59 | 70 | 64 | 59 |
| | F1200CA03 | IEC/QC | | | | | | | |
| | F1250AA03 | QC/QC | Common | 20 | 30 | 37 | 50 | 50 | 50 |
| | F1250BB03 | Wire/Wire | Differential | 4 | 38 | 59 | 70 | 64 | 59 |
| | F1250CA03 | IEC/QC | | | | | | | |
| 6A | F1299AA03 | QC/QC | Common | 26 | 37 | 45 | 45 | 45 | 40 |
| | F1299BB03 | Wire/Wire | Differential | 6 | 40 | 55 | 55 | 50 | 45 |
| | F1299CA03 | IEC/QC | | | | | | | |
| | F1200AA06 | QC/QC | Common | 10 | 22 | 30 | 46 | 50 | 45 |
| | F1200BB06 | Wire/Wire | Differential | 9 | 25 | 48 | 70 | 70 | 62 |
| | F1200CA06 | IEC/QC | | | | | | | |
| 10A | F1250AA06 | QC/QC | Common | 10 | 20 | 27 | 45 | 45 | 45 |
| | F1250BB06 | Wire/Wire | Differential | 9 | 25 | 48 | 70 | 70 | 62 |
| | F1250CA06 | IEC/QC | | | | | | | |
| | F1299AA06 | QC/QC | Common | 20 | 31 | 40 | 45 | 45 | 40 |
| | F1299BB06 | Wire/Wire | Differential | 6 | 35 | 50 | 55 | 50 | 45 |
| | F1299CA06 | IEC/QC | | | | | | | |
| 20A | F1200AA10 | QC/QC | Common | 10 | 22 | 30 | 46 | 50 | 45 |
| | F1200BB10 | Wire/Wire | Differential | 10 | 16 | 43 | 70 | 70 | 66 |
| | F1200CA10 | IEC/QC | | | | | | | |
| | F1250AA10 | QC/QC | Common | 10 | 20 | 27 | 45 | 45 | 45 |
| | F1250BB10 | Wire/Wire | Differential | 10 | 16 | 43 | 70 | 70 | 66 |
| | F1250CA10 | IEC/QC | | | | | | | |
| 30A | F1299AA10 | QC/QC | Common | 9 | 20 | 25 | 38 | 42 | 40 |
| | F1299BB10 | Wire/Wire | Differential | 14 | 14 | 38 | 50 | 48 | 45 |
| | F1299CA10 | IEC/QC | | | | | | | |
| | F1299DD10 | Screw/Screw | | | | | | | |
| | F1200AA20 | QC/QC | Common | 10 | 22 | 30 | 42 | 47 | 40 |
| | F1200DD20 | Screw/Screw | Differential | 9 | 19 | 44 | 70 | 70 | 70 |
| 30A | F1250AA20 | QC/QC | Common | 10 | 20 | 25 | 38 | 40 | 40 |
| | F1250DD20 | Screw/Screw | Differential | 9 | 19 | 44 | 70 | 70 | 70 |
| | F1299AA20 | QC/QC | Common | 10 | 20 | 28 | 35 | 38 | 40 |
| | F1299DD20 | Screw/Screw | Differential | 14 | 14 | 38 | 50 | 48 | 45 |
| 30A | F1200DD30 | Screw/Screw | Common | 7 | 15 | 20 | 34 | 42 | 40 |
| | | | Differential | 11 | 13 | 44 | 70 | 60 | 57 |
| | F1299DD30 | Screw/Screw | Common | 12 | 23 | 30 | 35 | 38 | 40 |
| | | | Differential | 15 | 40 | 55 | 55 | 55 | 50 |

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

Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses are metric equivalents.

Curtis Industries
A Division of Powers Holdings, Inc.

1-800-657-0853

7

F1200/F1250/F1299 RFI Filters (continued)

Specifications:

Rated Voltage: 250VAC Maximum - 50/60 Hz

Rated Current:

| | | | | | | | |
|--------|----|------|------|----|-----|-----|-----|
| 115VAC | 1A | 2A | 3A | 6A | 10A | 20A | 30A |
| 250VAC | 1A | 1.5A | 2.5A | 4A | 6A | 10A | 15A |

Current Overload: 6X for 8 seconds

| | | |
|-----------------------------|---------------------|---------------------|
| Hi-Pot Test (1 min): | F1200 Series | F1299 Series |
| Line to Ground: | 1500VAC | 1500VAC |
| Line to Line: | 1768VDC | 1450VDC |

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

Ambient Temperature: 40°C Max at rated current

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

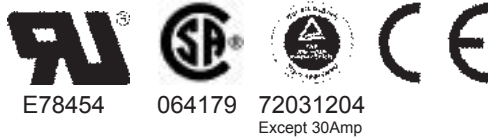
Termination:

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

Maximum Leakage Current:

| | | | | | | | |
|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Each Line to Ground | F1200 | F1250 | F1299 | F1260 | F1270 | F1280 | F1290 |
| 115VAC, 60Hz: | 0.40mA | 0.25mA | .25mA | .25mA | .002mA | .015mA | .030mA |
| 250VAC, 50Hz: | .75mA | .40mA | .45mA | .45mA | .005mA | .025mA | .050mA |

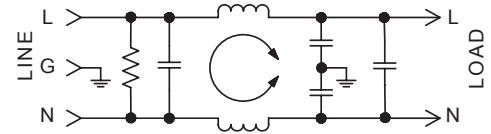
**Agency Approvals
F1200/F1250:**



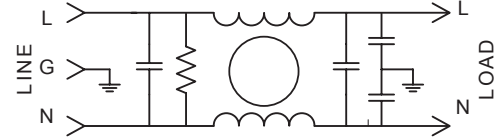
**Agency Approvals
F1299:**



F1200/F1250 Simplified Schematic

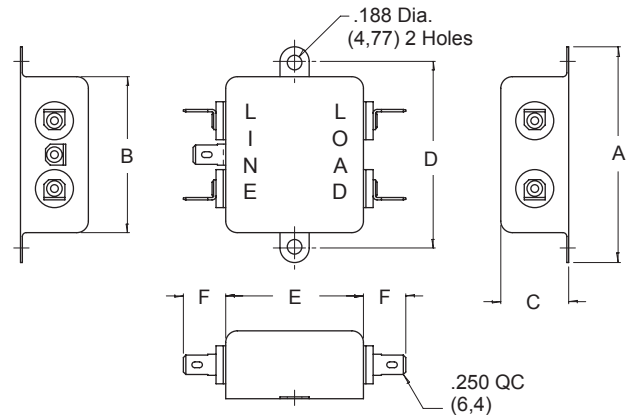


F1299 Simplified Schematic



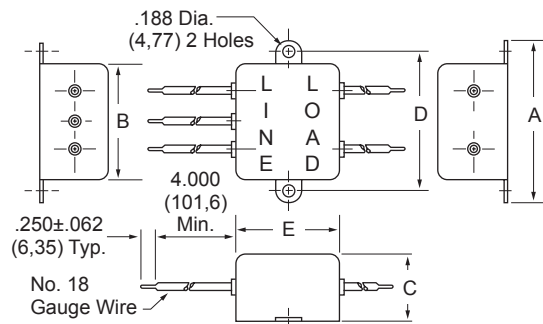
F1200AA/F1250AA (1, 3, 6, 10 and 20Amp) Dimensions

| Amps | A | B | C | D | E | F |
|------|-----------------|----------------|-----------------|-----------------|-----------------|----------------|
| 1A | 2.750 (69,9) | 2.00 (50,8) | .875 (22,2) | 2.375 (60,3) | 1.750 (44,5) | .550 (14,0) |
| 3A | 2.750 (69,9) | 2.00 (50,8) | 1.125 (28,5) | 2.375 (60,3) | 1.750 (44,5) | .550 (14,0) |
| 6A | 2.750 (69,9) | 2.00 (50,8) | 1.125 (28,5) | 2.375 (60,3) | 1.750 (44,5) | .550 (14,0) |
| 10A | 2.750 (69,9) | 2.00 (50,8) | 1.125 (28,5) | 2.375 (60,3) | 2.000 (50,8) | .550 (14,0) |
| 20A | 3.310 (84,1) | 2.50 (63,5) | 1.500 (38,1) | 2.940 (74,7) | 2.000 (50,8) | .550 (14,0) |



F1200BB/FB1250BB (1, 3, 6 and 10Amp) Dimensions

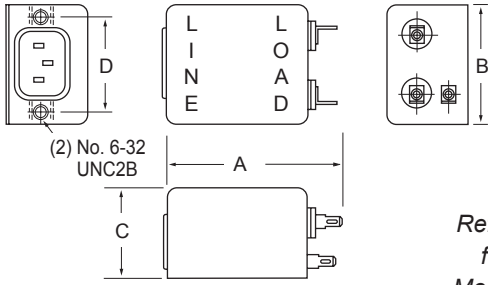
| Amps | A | B | C | D | E |
|------|-----------------|----------------|-----------------|-----------------|-----------------|
| 1A | 2.750 (69,9) | 2.00 (50,8) | .875 (22,2) | 2.375 (60,3) | 1.750 (44,5) |
| 3A | 2.750 (69,9) | 2.00 (50,8) | 1.125 (28,5) | 2.375 (60,3) | 1.750 (44,5) |
| 6A | 2.750 (69,9) | 2.00 (50,8) | 1.125 (28,5) | 2.375 (60,3) | 1.750 (44,5) |
| 10A | 2.750 (69,9) | 2.00 (50,8) | 1.125 (28,5) | 2.375 (60,3) | 2.000 (50,8) |



General Purpose

SINGLE PHASE FILTERS

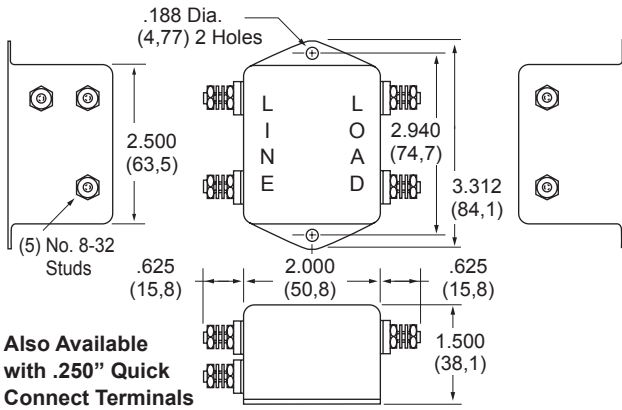
F1200CA/F1250CA (3, 6, and 10Amp) Dimensions



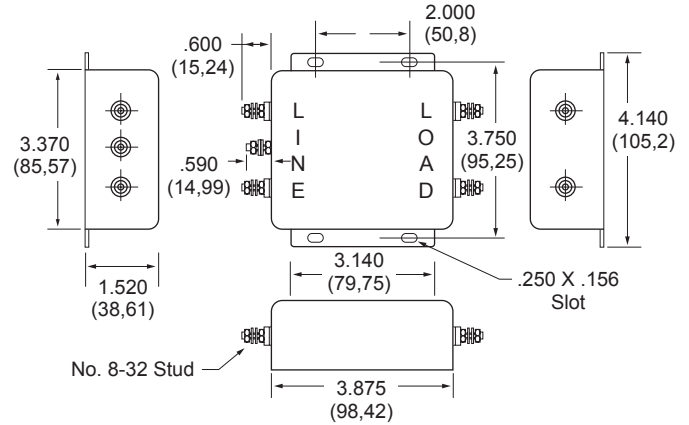
| Amps | A | B | C | D |
|------|----------------|-----------------|-----------------|-----------------|
| 3A | 2.55 (64,8) | 2.000 (50,8) | 1.50 (38,1) | 1.575 (40,0) |
| 6A | 3.05 (77,5) | 2.000 (50,8) | 1.500 (38,1) | 1.575 (40,0) |
| 10A | 3.05 (77,5) | 2.000 (50,8) | 1.500 (38,1) | 1.575 (40,0) |

Refer to Page 40
for Standard
Mounting Cutouts

F1200DD/F1250DD (20Amp Only) Dimensions

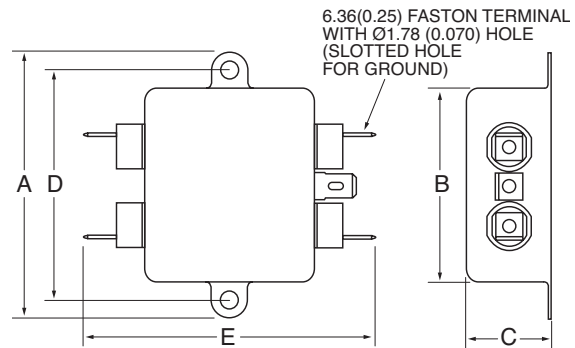


F1200DD30 (30Amp Only) Dimensions



F1299AA (2, 3, 6, 10 and 20Amp) Dimensions

| Amps | A | B | C | D | E |
|------|----------------|----------------|----------------|------------------|----------------|
| 2A | 2.81 (71,4) | 2.07 (52,6) | 0.91 (23,1) | 2.375 (60,33) | 3.10 (78,7) |
| 3A | 2.81 (71,4) | 2.07 (52,6) | 1.16 (29,5) | 2.375 (60,33) | 3.10 (78,7) |
| 6A | 2.81 (71,4) | 2.07 (52,6) | 1.16 (29,5) | 2.375 (60,33) | 3.10 (78,7) |
| 10A | 2.81 (71,4) | 2.07 (52,6) | 1.16 (29,5) | 2.375 (60,33) | 3.35 (85,1) |
| 20A | 3.35 (85,1) | 2.56 (65,0) | 1.53 (38,9) | 2.938 (74,63) | 3.35 (85,1) |



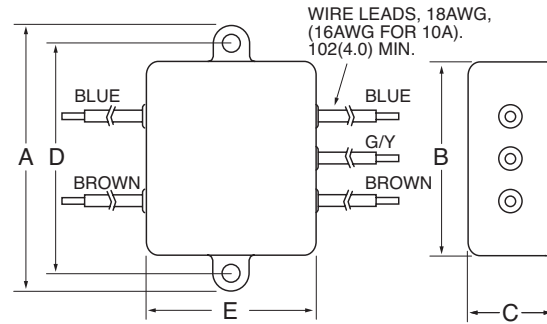
F1200/F1250/F1299 RFI Filters (continued)

General Purpose

SINGLE PHASE FILTERS

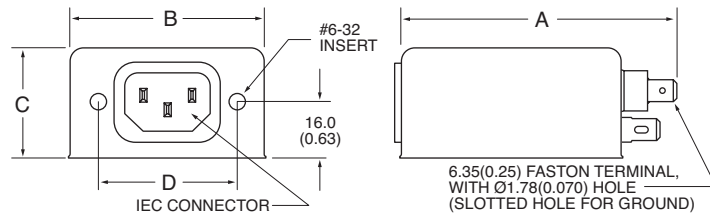
F1299BB (2, 3, 6 and 10Amp) Dimensions

| Amps | A | B | C | D | E |
|------|----------------|----------------|----------------|------------------|----------------|
| 2A | 2.81 (71,4) | 2.07 (52,6) | 0.91 (23,1) | 2.375 (60,33) | 1.81 (46,0) |
| 3A | 2.81 (71,4) | 2.07 (52,6) | 1.16 (29,5) | 2.375 (60,33) | 3.10 (78,7) |
| 6A | 2.81 (71,4) | 2.07 (52,6) | 1.16 (29,5) | 2.375 (60,33) | 3.10 (78,7) |
| 10A | 2.81 (71,4) | 2.07 (52,6) | 1.16 (29,5) | 2.375 (60,33) | 2.07 (52,6) |



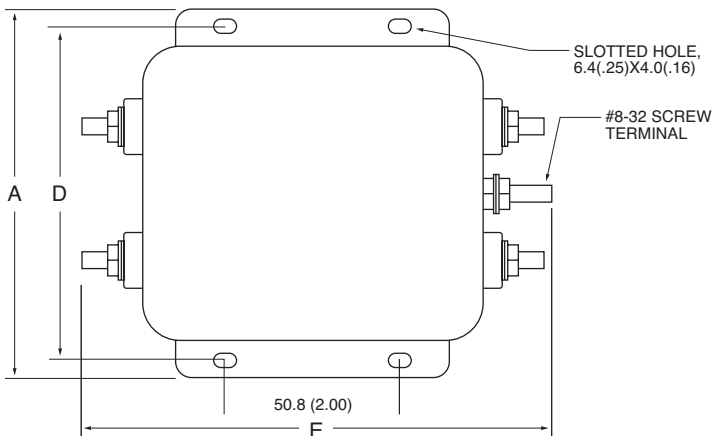
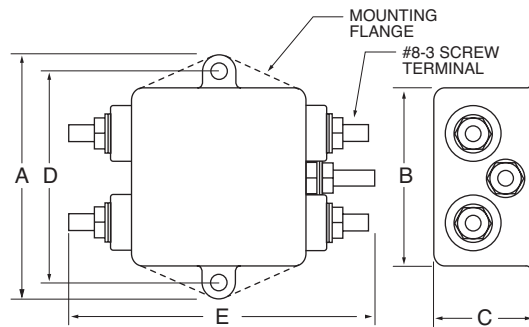
F1299CA (3, 6 and 10Amp) Dimensions

| Amps | A | B | C | D |
|------|----------------|----------------|----------------|-----------------|
| 3A | 3.21 (81,5) | 2.25 (57,2) | 1.28 (32,5) | 1.575 (40,0) |
| 6A | 3.21 (81,5) | 2.25 (57,2) | 1.28 (32,5) | 1.575 (40,0) |
| 10A | 3.71 (94,2) | 2.25 (57,2) | 1.28 (32,5) | 1.575 (40,0) |



F1299DD (10, 20 and 30Amp) Dimensions

| Amps | A | B | C | D | E |
|------|-----------------|----------------|----------------|------------------|-----------------|
| 10A | 2.81 (71,40) | 2.07 (52,6) | 1.16 (29,5) | 2.375 (60,33) | 3.46 (87,9) |
| 20A | 3.35 (85,1) | 2.56 (65,0) | 1.53 (38,9) | 2.938 (74,63) | 3.46 (87,9) |
| 30A | 4.20 (106,7) | 3.38 (85,9) | 1.53 (38,9) | 3.750 (95,25) | 5.34 (135,6) |



F1300/F1350/F1399 RFI Filters

Features:

- T Circuit Configuration—Designed for Motor, Capacitive and Other Low Impedance Loads
- Dual Coils — Higher Performance in Unknown RFI and Noise Susceptibility Applications
- Integral IEC Connector and PC Mounted Versions Now Available



| 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 | | | | | | | |
| 1A | F1300AA01 | QC/QC | Common | 40 | 65 | 65 | 65 | 65 | 65 | | | | | | | |
| | F1300BB01 | Wire/Wire | Differential | 2 | 57 | 69 | 70 | 70 | 60 | | | | | | | |
| | F1350AA01 | QC/QC | Common | 30 | 60 | 65 | 65 | 65 | 65 | | | | | | | |
| | F1350BB01 | Wire/Wire | Differential | 2 | 57 | 69 | 70 | 70 | 60 | | | | | | | |
| 2A | F1399AA02 | QC/QC | Common | 40 | 65 | 65 | 65 | 65 | 40 | | | | | | | |
| | F1399BB02 | Wire/Wire | Differential | 5 | 45 | 70 | 65 | 60 | 50 | | | | | | | |
| 3A | F1300AA03 | QC/QC | Common | 40 | 65 | 65 | 65 | 65 | 65 | | | | | | | |
| | F1300BB03 | Wire/Wire | | | | | | | | | | | | | | |
| | F1300CA03 | IEC/QC | | | | | | | | | | | | | | |
| | F1300CP03 | IEC/PC | Differential | 7 | 64 | 70 | 70 | 70 | 58 | | | | | | | |
| | F1350AA03 | QC/QC | | | | | | | | | | | | | | |
| | F1350BB03 | Wire/Wire | | | | | | | | | | | | | | |
| F1350CA03 | IEC/QC | | | | | | | | | | | | | | | |
| F1350CP03 | IEC/PC | | | | | | | | | | | | | | | |
| F1399AA03 | QC/QC | Common | 40 | 65 | 65 | 65 | 65 | 65 | 40 | | | | | | | |
| F1399BB03 | Wire/Wire | | | | | | | | | | | | | | | |
| F1399CA03 | IEC/QC | | | | | | | | | | | | | | | |
| F1399CP03 | IEC/PC | Differential | 12 | 55 | 70 | 65 | 60 | 60 | 50 | | | | | | | |
| F1300AA06 | QC/QC | | | | | | | | | Common | 12 | 48 | 60 | 65 | 65 | 65 |
| F1300BB06 | Wire/Wire | | | | | | | | | | | | | | | |
| F1300CA06 | IEC/QC | | | | | | | | | | | | | | | |
| F1350AA06 | QC/QC | Common | 2 | 40 | 60 | 65 | 65 | 65 | 65 | | | | | | | |
| F1350BB06 | Wire/Wire | | | | | | | | | | | | | | | |
| F1350CA06 | IEC/QC | | | | | | | | | | | | | | | |
| F1399AA06 | QC/QC | Common | 30 | 55 | 65 | 65 | 65 | 65 | 40 | | | | | | | |
| F1399BB06 | Wire/Wire | | | | | | | | | | | | | | | |
| F1399CA06 | IEC/QC | | | | | | | | | | | | | | | |
| F1399CP06 | IEC/PC | Differential | 5 | 40 | 70 | 65 | 60 | 60 | 50 | | | | | | | |
| F1300AA10 | QC/QC | | | | | | | | | Common | 12 | 48 | 60 | 65 | 65 | 65 |
| F1300BB10 | Wire/Wire | | | | | | | | | | | | | | | |
| F1300CA10 | IEC/QC | | | | | | | | | | | | | | | |
| F1350AA10 | QC/QC | Common | 2 | 40 | 60 | 65 | 65 | 65 | 65 | | | | | | | |
| F1350BB10 | Wire/Wire | | | | | | | | | | | | | | | |
| F1350CA10 | IEC/QC | | | | | | | | | | | | | | | |
| F1399AA10 | QC/QC | Common | 5 | 40 | 52 | 60 | 60 | 60 | 50 | | | | | | | |
| F1399BB10 | Wire/Wire | | | | | | | | | | | | | | | |
| F1399CA10 | IEC/QC | | | | | | | | | | | | | | | |
| F1399DD10 | Screw/Screw | Differential | 5 | 12 | 50 | 65 | 60 | 60 | 55 | | | | | | | |
| F1300AA15 | QC/QC | | | | | | | | | Common | 14 | 35 | 44 | 56 | 58 | 55 |
| F1300BB15 | Wire/Wire | | | | | | | | | | | | | | | |
| F1300CA15 | IEC/QC | | | | | | | | | | | | | | | |
| F1350AA15 | QC/QC | Common | 5 | 44 | 60 | 65 | 65 | 65 | 60 | | | | | | | |
| F1350BB15 | Wire/Wire | | | | | | | | | | | | | | | |
| F1350CA15 | IEC/QC | | | | | | | | | | | | | | | |
| F1399AA15 | QC/QC | Common | 2 | 35 | 61 | 63 | 60 | 60 | 50 | | | | | | | |
| F1399BB15 | Wire/Wire | | | | | | | | | | | | | | | |
| F1399CA15 | IEC/QC | | | | | | | | | | | | | | | |
| F1399DD15 | Screw/Screw | Differential | 5 | 12 | 50 | 65 | 60 | 60 | 55 | | | | | | | |

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

Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses are metric equivalents.

Curtis Industries
A Division of Powers Holdings, Inc.

1-800-657-0853

General Purpose

SINGLE PHASE FILTERS

F1300/F1350/F1399 RFI Filters (continued)

Specifications:

Rated Voltage: 250VAC Maximum - 50/60 Hz

Rated Current:

| | | | | | | | |
|--------|----|------|------|----|-----|-----|-----|
| 115VAC | 1A | 2A | 3A | 6A | 10A | 15A | 20A |
| 250VAC | 1A | 1.5A | 2.5A | 4A | 6A | 15A | 16A |

Current Overload: 6X for 8 seconds

Hi-Pot Test (1 min): **F1300/F1350**

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

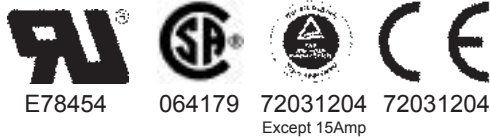
Humidity Range: 0% to 95% R.H.

Termination: A: QC – Quick Connect C: IEC Receptacle
B: Wire P: PCB Pins

Maximum Leakage Current: Each Line to Ground

| | | | | | | | |
|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | F1300 | F1350 | D1399 | F1360 | F1370 | F1380 | F1390 |
| 115VAC, 60Hz: | 0.4mA | 0.25mA | 0.25mA | .15mA | .002mA | .015mA | .030mA |
| 250VAC, 50Hz: | .75mA | .40mA | 0.45mA | .25mA | .005mA | .025mA | .050mA |

Agency Approvals:

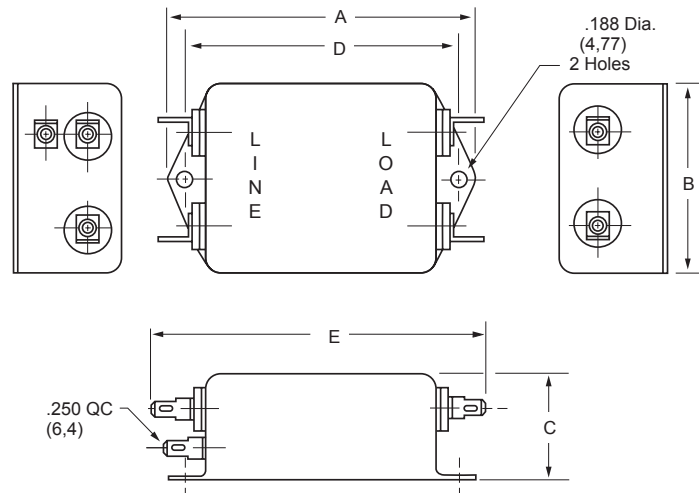


General Purpose

SINGLE PHASE FILTERS

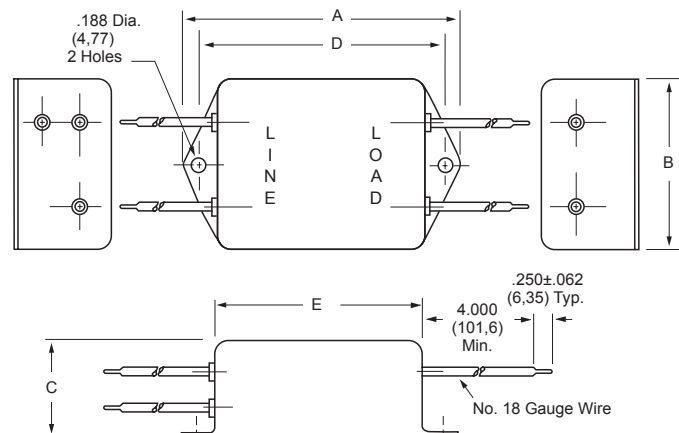
F1300AA (1, 3, 6, 10 and 15Amp) F1350AA (1, 3, 6 and 10Amp) Dimensions

| Amps | A | B | C | D | E |
|------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 1A | 2.750 (69,9) | 1.750 (44,5) | 1.125 (28,5) | 2.375 (60,3) | 2.925 (74,3) |
| 3A | 3.312 (84,1) | 2.000 (50,8) | 1.125 (28,5) | 2.940 (74,7) | 3.49 (88,7) |
| 6A | 3.312 (84,1) | 2.000 (50,8) | 1.125 (28,5) | 2.940 (74,7) | 3.49 (88,7) |
| 10A | 3.312 (84,1) | 2.000 (50,8) | 1.500 (38,1) | 2.940 (74,7) | 3.49 (88,7) |
| 15A | 3.312 (84,1) | 2.000 (50,8) | 1.500 (38,1) | 2.940 (74,7) | 3.49 (88,7) |

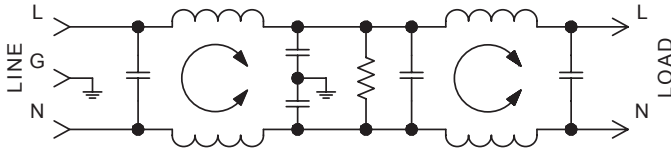


F1300BB/F1350BB (1, 3, 6 and 10Amp) Dimensions

| Amps | A | B | C | D | E |
|------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 1A | 2.750 (69,9) | 1.750 (44,5) | 1.125 (28,5) | 2.375 (60,3) | 2.000 (50,8) |
| 3A | 3.312 (84,1) | 2.000 (50,8) | 1.125 (28,5) | 2.940 (74,7) | 2.500 (63,5) |
| 6A | 3.312 (84,1) | 2.000 (50,8) | 1.125 (28,5) | 2.940 (74,7) | 2.500 (63,5) |
| 10A | 3.312 (84,1) | 2.000 (50,8) | 1.500 (38,1) | 2.940 (74,7) | 2.500 (63,5) |



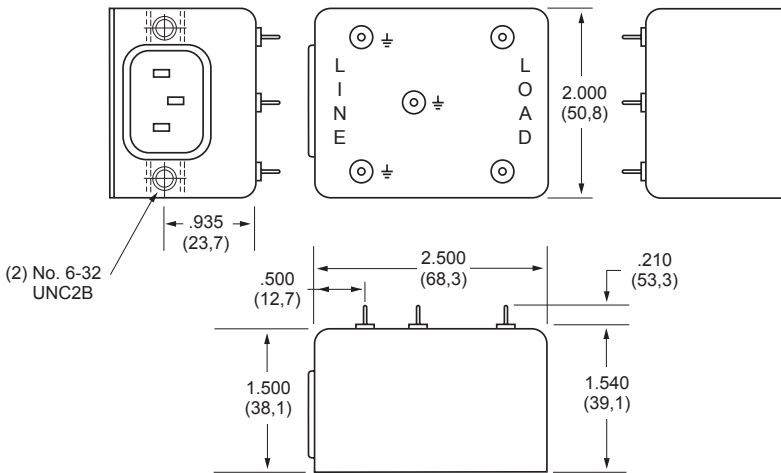
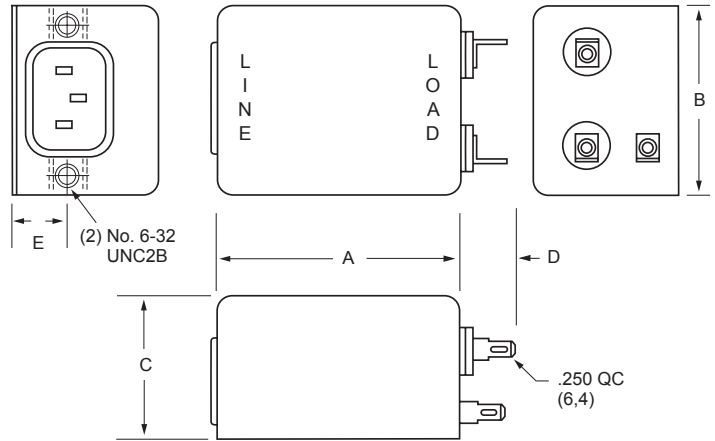
F1300/F1350 Simplified Schematic



F1300CA (3, 6 and 10Amp) F1350CA (3 and 6Amp) Dimensions

Refer to Page 40
for Standard
Mounting Cutouts

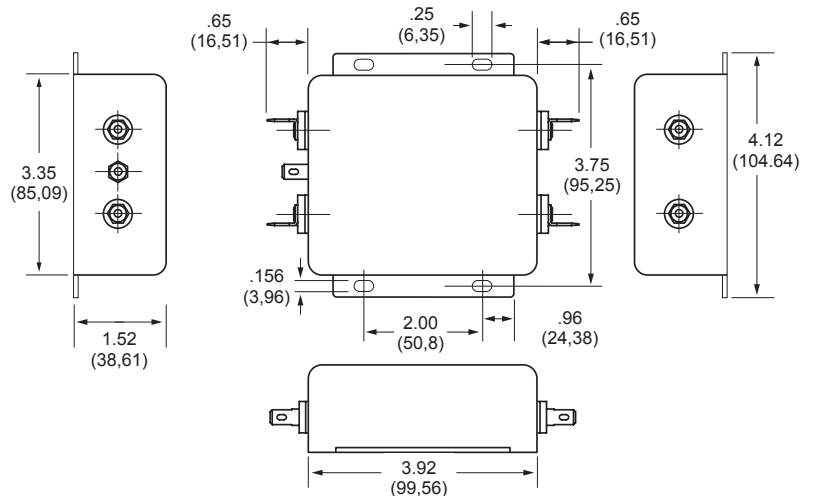
| Amps | A | B | C | D | E |
|------|-----------------|-----------------|-----------------|----------------|----------------|
| 3A | 2.500 (63,6) | 2.000 (50,8) | 1.500 (38,1) | .550 (14,0) | .565 (14,3) |
| 6A | 2.500 (63,5) | 2.000 (50,8) | 1.500 (38,1) | .550 (14,0) | .565 (14,3) |
| 10A | 2.880 (73,1) | 2.120 (53,8) | 1.500 (38,1) | .65 (16,0) | .565 (14,3) |



F1300CP/F1350CP (3Amp Only) Dimensions

Refer to Page 40
for Standard
Mounting Cutouts

F1300AA/F1350AA (20Amp Only) Dimensions



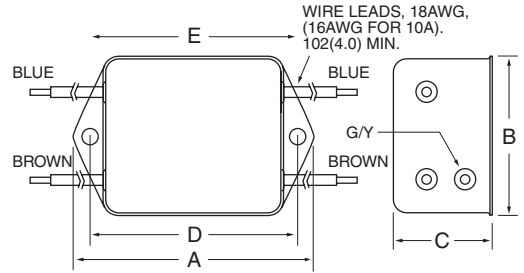
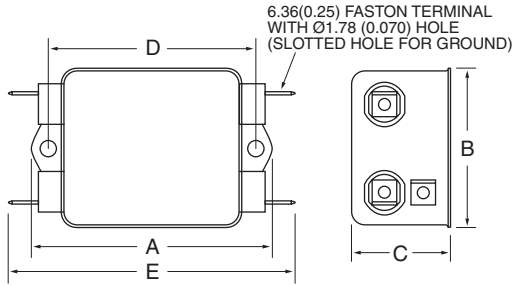
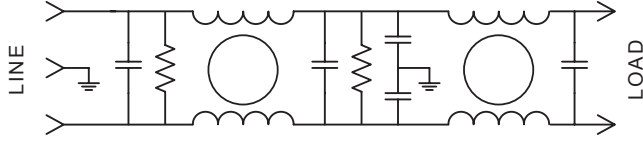
Dimensions are in inches and millimeters
unless otherwise specified.
Values in parentheses are metric equivalents.

F1300/F1399 RFI Filters (continued)

General Purpose

SINGLE PHASE FILTERS

F1399 Simplified Schematic

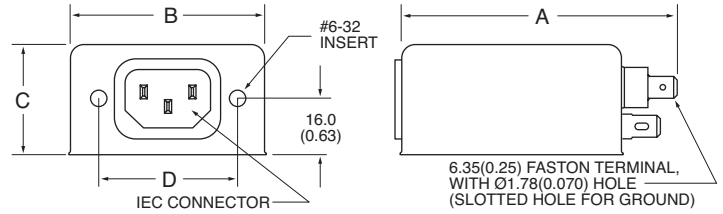


F1399BB (2, 3, 6 and 10Amp) Dimensions

| Amps | A | B | C | D | E |
|------|----------------|----------------|----------------|------------------|----------------|
| 2A | 2.07 (52,6) | 1.81 (46,0) | 1.16 (29,5) | 2.375 (60,33) | 2.78 (70,6) |
| 3A | 2.56 (65,0) | 2.07 (52,6) | 1.16 (29,5) | 2.938 (74,63) | 3.35 (85,1) |
| 6A | 2.56 (65,0) | 2.07 (52,6) | 1.16 (29,5) | 2.938 (74,63) | 3.35 (85,1) |
| 10A | 2.56 (65,0) | 2.07 (52,6) | 1.53 (38,9) | 2.938 (74,63) | 3.35 (85,1) |

F1399AA (2, 3, 6, 10 and 20Amp) Dimensions

| Amps | A | B | C | D | E |
|------|-----------------|----------------|----------------|------------------|-----------------|
| 2A | 3.35 (85,1) | 1.81 (46,0) | 1.16 (29,5) | 2.375 (60,33) | 2.78 (70,6) |
| 3A | 3.85 (97,8) | 2.07 (52,6) | 1.16 (29,5) | 2.938 (74,63) | 3.35 (85,1) |
| 6A | 3.85 (97,8) | 2.07 (52,6) | 1.16 (29,5) | 2.938 (74,63) | 3.35 (85,1) |
| 10A | 3.85 (97,8) | 2.07 (52,6) | 1.53 (38,9) | 2.938 (74,63) | 3.35 (85,1) |
| 20A | 5.23 (132,8) | 3.37 (85,6) | 1.53 (38,9) | 3.75 (95,25) | 4.20 (106,7) |

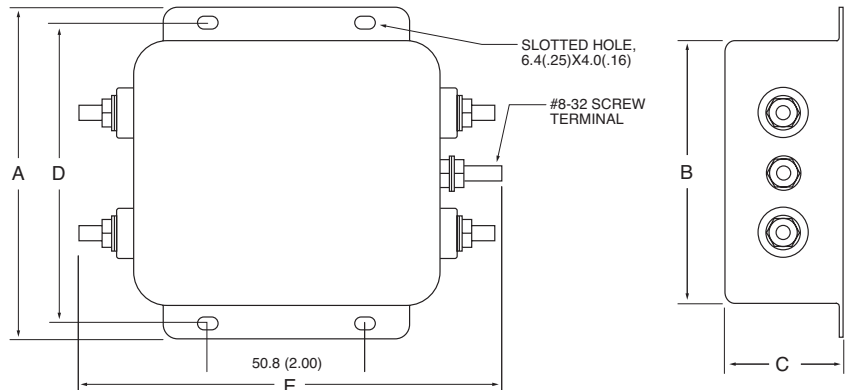
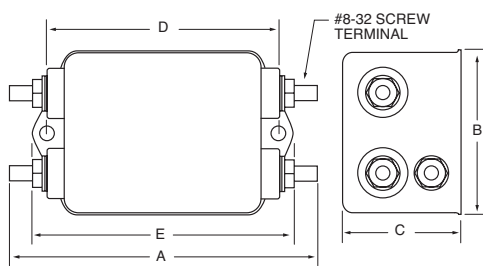


F1399CA (3, 6 and 10Amp) Dimensions

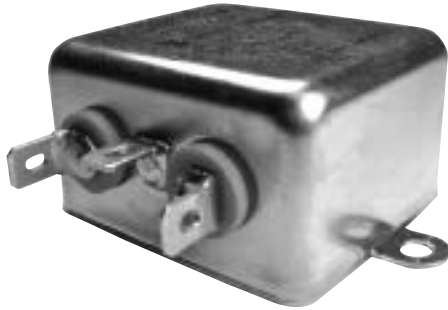
| Amps | A | B | C | D |
|------|-----------------|----------------|----------------|-----------------|
| 3A | 4.33 (110,0) | 2.25 (57,2) | 1.28 (32,5) | 1.575 (40,0) |
| 6A | 4.33 (110,0) | 2.25 (57,2) | 1.28 (32,5) | 1.575 (40,0) |
| 10A | 4.33 (110,0) | 2.25 (57,2) | 1.53 (38,9) | 1.575 (40,0) |

F1399DD (10 and 20Amp) Dimensions

| Amps | A | B | C | D | E |
|------|-----------------|----------------|----------------|------------------|-----------------|
| 10A | 3.96 (100,6) | 2.07 (52,6) | 1.53 (38,9) | 2.938 (74,63) | 3.35 (85,1) |
| 20A | 5.34 (135,6) | 3.37 (85,6) | 1.53 (38,9) | 3.75 (95,25) | 4.20 (106,7) |



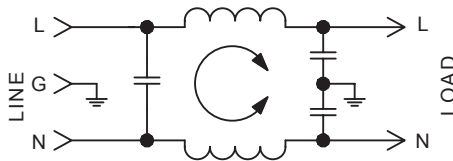
F1900 RFI Filters



Features:

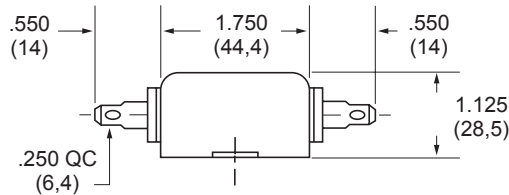
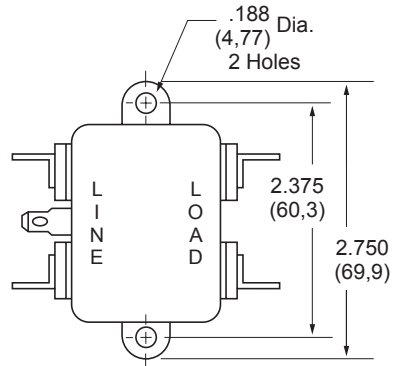
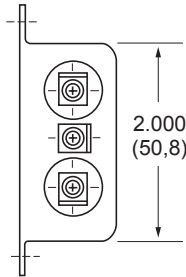
- Designed for Equipment Requiring UL1410 Approval (Consumer Electronics)
- Utilizes UL1414 Approved Components
- Greater Differential Mode Protection

F1900 Simplified Schematic



F1900AA

(3 and 6Amp) Dimensions



Specifications:

Rated Voltage: 125VAC Maximum - 50/60 Hz

Rated Current: 120VAC
3A
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

Maximum Leakage Current:

Each Line to Ground **F1900**
115VAC, 60Hz: 0.25mA

Agency Approvals:



E78454

064179

| 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 | F1900AA03 | QC/QC | Common | 20 | 30 | 37 | 50 | 50 | 50 |
| | | | Differential | 7 | 19 | 28 | 50 | 57 | 70 |
| 6A | F1900AA06 | QC/QC | Common | 10 | 20 | 27 | 45 | 45 | 45 |
| | | | Differential | 8 | 18 | 24 | 45 | 52 | 64 |

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

Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses are metric equivalents.

Curtis Industries
A Division of Powers Holdings, Inc.

1-800-657-0853

General Purpose

SINGLE PHASE FILTERS

F1400 RFI Filters

High Performance

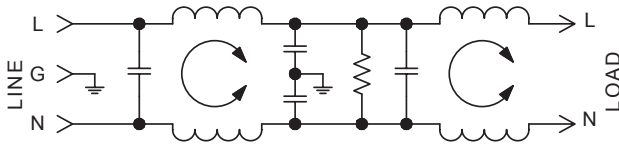
SINGLE PHASE FILTERS



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 | F1400 |
| 115VAC, 60Hz: | 0.25mA |
| 250VAC, 50Hz: | 0.40mA |

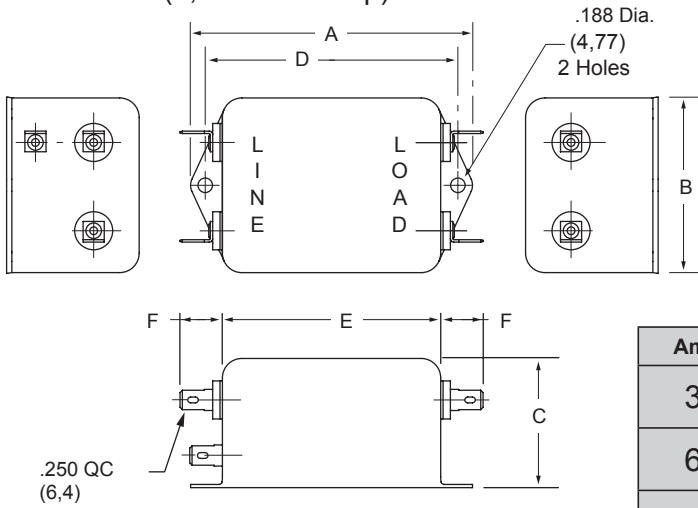
Agency Approvals:



| 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 F1400BB03 F1400CA03 | QC/QC Wire/Wire IEC/QC | Common | 58 | 65 | 65 | 65 | 60 | 44 |
| | | | Differential | 40 | 60 | 65 | 65 | 65 | 60 |
| 6A | F1400AA06 F1400BB06 F1400CA06 | QC/QC Wire/Wire IEC/QC | Common | 58 | 65 | 65 | 65 | 60 | 54 |
| | | | Differential | 36 | 55 | 60 | 60 | 55 | 50 |
| 10A | F1400AA10 F1400BB10 | QC/QC 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.

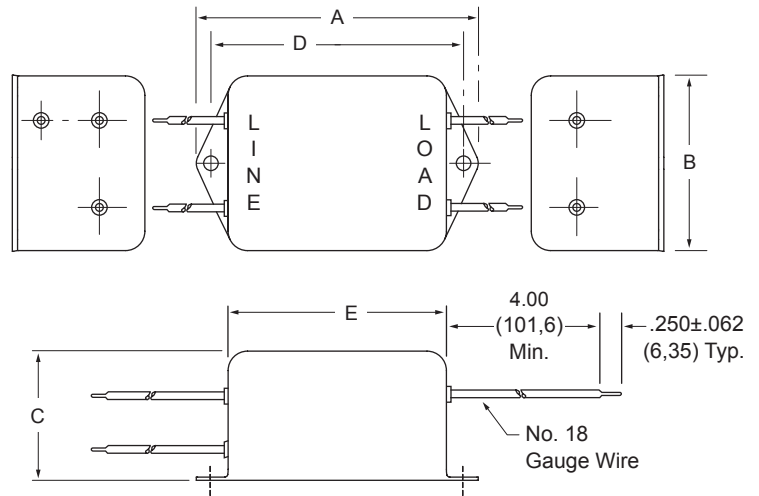
F1400AA (3, 6 and 10Amp) Dimensions



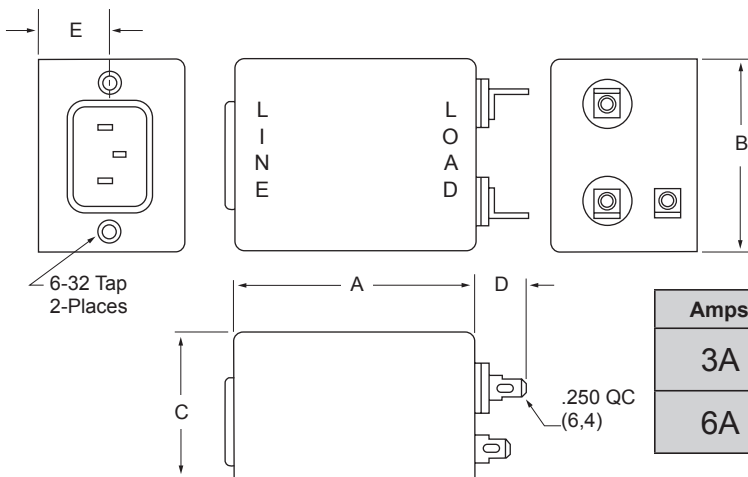
| Amps | A | B | C | D | E | F |
|------|-----------------|-----------------|-----------------|------------------|-----------------|----------------|
| 3A | 3.310 (84,1) | 2.000 (50,8) | 1.500 (38,2) | 2.940 (74,7) | 2.500 (63,5) | .550 (14,0) |
| 6A | 3.310 (84,1) | 2.000 (50,8) | 1.500 (38,2) | 2.940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

F1400BB (3, 6 and 10Amp) Dimensions

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



F1400CA (3 and 6Amp) Dimensions



Refer to Page 40
for Standard
Mounting Cutouts

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

Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses are metric equivalents.

F1500 RFI Filters

High Performance

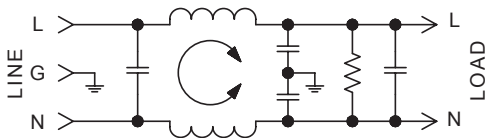
SINGLE PHASE FILTERS



Features:

- IEC Connector Plus Common and Differential Mode Performance in Compact Case
- "L" Circuit Configuration — Cost-Effective in Many Linear and Switching Power Supply Applications
- High-Inductance Design for Greater Attenuation
- Available with 0.250" Quick Connect Terminals or Wire Leads on the Load Side

F1500CA Simplified Schematic



Specifications:

Rated Voltage: 250VAC Maximum - 50/60 Hz

| | | |
|-----------------------|--------|--------|
| Rated Current: | 115VAC | 250VAC |
| | 3A | 1.5A |
| | 6A | 3A |
| | 10A | 6A |
| | 15A | 8A |

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
- C: IEC Receptacle
- F: IEC Receptacle with Fuse Holder

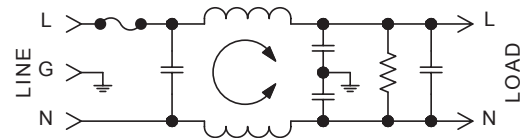
Maximum Leakage Current:

| | |
|---------------------|--------------|
| Each Line to Ground | F1500 |
| 115VAC, 60Hz: | 0.25mA |
| 250VAC, 50Hz: | 0.40mA |

Agency Approvals:



F1500FA Simplified Schematic



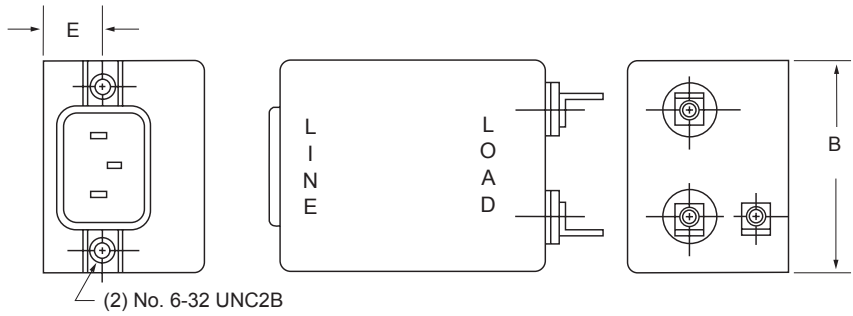
| Nominal Current Rating | Part Number | Termination Line/Load | MINIMUM INSERTION LOSS - dB (50 ohm Circuit) | | | | | | |
|------------------------|------------------------|------------------------|--|-----------------|-----|-----|-----|----|----|
| | | | MODE | Frequency - MHz | | | | | |
| | | | | .15 | .50 | 1.0 | 5.0 | 10 | 30 |
| 3A | F1500CA03 F1500FA03 | IEC/QC Fused IEC/QC | Common | 32 | 43 | 50 | 50 | 50 | 50 |
| | | | Differential | 35 | 60 | 65 | 60 | 55 | 40 |
| 6A | F1500CA06 F1500FA06 | IEC/QC Fused IEC/QC | Common | 32 | 42 | 45 | 45 | 45 | 45 |
| | | | Differential | 30 | 60 | 65 | 65 | 60 | 50 |
| 10A | F1500CA10 F1500FA10 | IEC/QC Fused IEC/QC | Common | 29 | 36 | 39 | 45 | 45 | 45 |
| | | | Differential | 15 | 50 | 65 | 65 | 60 | 50 |
| 15A | F1500CA15 | IEC/QC | Common | 26 | 32 | 36 | 44 | 46 | 52 |
| | | | Differential | 35 | 60 | 65 | 65 | 65 | 65 |

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

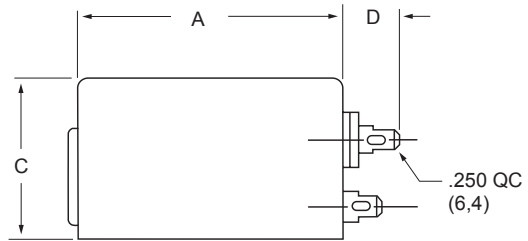
F1500CA

(3, 6, 10 and 15Amp) Dimensions

Refer to Page 40
for Standard
Mounting Cutouts



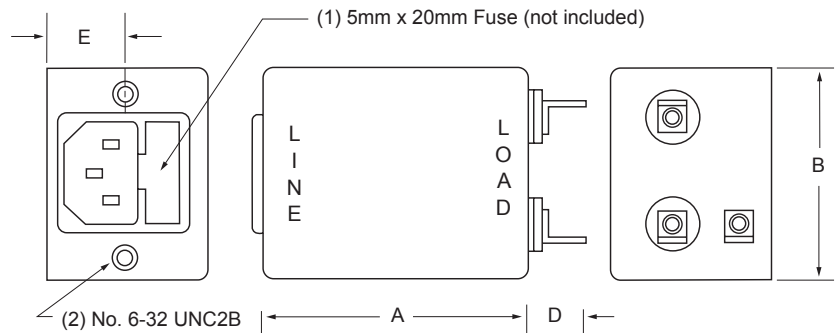
| Amps | A | B | C | D | E |
|------|-----------------|-----------------|-----------------|----------------|----------------|
| 3A | 2.000 (50,8) | 2.000 (50,8) | 1.500 (38,1) | .550 (14,0) | .565 (14,3) |
| 6A | 2.500 (63,5) | 2.000 (50,8) | 1.500 (38,1) | .550 (14,0) | .565 (14,3) |
| 10A | 2.500 (63,5) | 2.000 (50,8) | 1.500 (38,1) | .550 (14,0) | .565 (14,3) |
| 15A | 3.25 (82,6) | 2.25 (57,2) | 1.75 (44,5) | .550 (14,0) | .705 (17,9) |



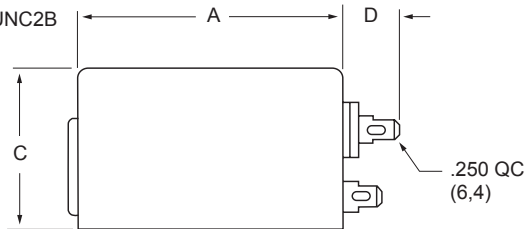
F1500FA

(3, 6 and 10Amp) Dimensions

Refer to Page 40
for Standard
Mounting Cutouts



| Amps | A | B | C | D | E |
|------|-----------------|-----------------|-----------------|----------------|----------------|
| 3A | 2.000 (50,8) | 2.000 (50,8) | 1.500 (38,1) | .550 (14,0) | .752 (19,1) |
| 6A | 2.500 (63,5) | 2.000 (50,8) | 1.500 (38,1) | .550 (14,0) | .752 (19,1) |
| 10A | 2.500 (63,5) | 2.000 (50,8) | 1.500 (38,1) | .550 (14,0) | .752 (19,1) |



F1600 RFI Filters

High Performance

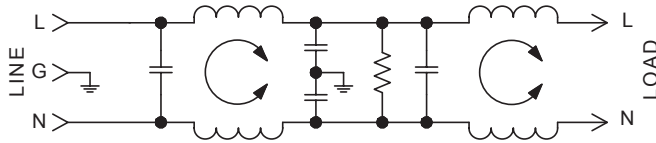
SINGLE PHASE FILTERS



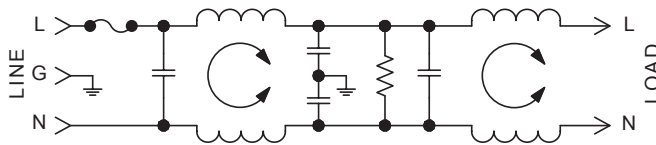
Features:

- T Section, Dual Coil Design – High Insertion Loss for Switching Power Supply Emissions
- Low-Leakage Current Design
- Space-Efficient with Integral IEC Connector and Compact Case in Current Ratings up to 10Amps
- Available in Fused IEC Connector and PC Mounted Versions

F1600CX Simplified Schematic



F1600FA Simplified Schematic



Specifications:

Rated Voltage: 250VAC Maximum - 50/60 Hz

Rated Current:

| | |
|--------|--------|
| 115VAC | 250VAC |
| 3A | 1.5A |
| 6A | 3A |
| 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
- F: Fused IEC
- P: PCB Pins

Maximum Leakage Current:

| | |
|---------------------|--------------|
| Each Line to Ground | F1600 |
| 115VAC, 60Hz: | 0.25mA |
| 250VAC, 50Hz: | 0.40mA |

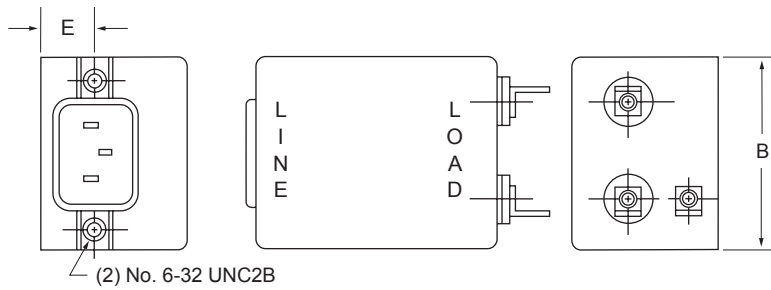
Agency Approvals:



| 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 | F1600CA03 F1600CP03 F1600FA03 F1600CB03 | IEC/QC IEC/PC Fused IEC/QC IEC/Wire | Common | 52 | 65 | 65 | 65 | 65 | 65 |
| | | | Differential | 40 | 50 | 60 | 65 | 65 | 50 |
| 6A | F1600CA06 F1600CP06 F1600FA06 F1600CB06 | IEC/QC IEC/PC Fused IEC/QC IEC/Wire | Common | 45 | 65 | 65 | 65 | 65 | 59 |
| | | | Differential | 30 | 45 | 55 | 50 | 50 | 50 |
| 10A | F1600CA10 F1600CB10 | IEC/QC IEC/Wire | Common | 50 | 65 | 65 | 65 | 65 | 54 |
| | | | Differential | 23 | 45 | 55 | 50 | 50 | 50 |

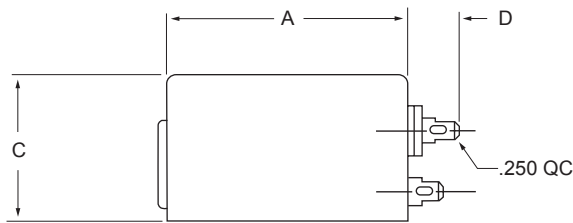
NOTE: Other combinations of terminals may be specified on special order.

F1600CA (3, 6 and 10Amp) Dimensions **F1600CB** (3, 6 and 10Amp) Dimensions



Refer to Page 40
for Standard
Mounting Cutouts

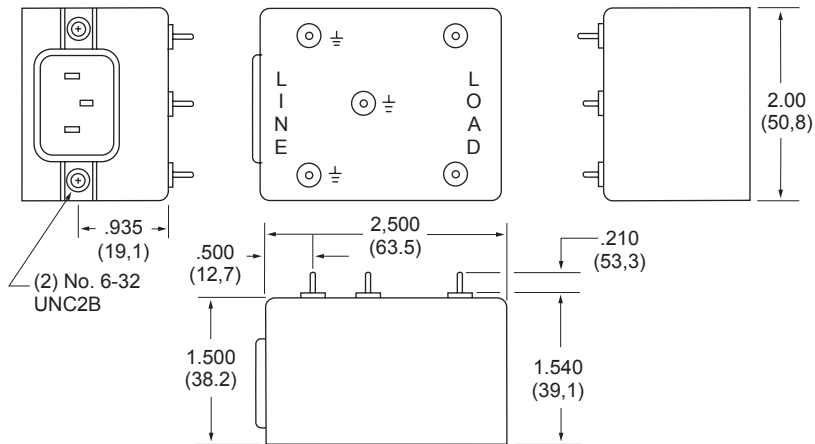
(2) No. 6-32 UNC2B



| Amps | A | B | C | D | E |
|------|-----------------|-----------------|-----------------|----------------|----------------|
| 3A | 2.500 (63,5) | 2.000 (50,8) | 1.500 (38,2) | .550 (14,0) | .565 (14,3) |
| 6A | 2.500 (63,5) | 2.000 (50,8) | 1.500 (38,2) | .550 (14,0) | .565 (14,3) |
| 10A | 3.750 (95,2) | 2.250 (57,2) | 1.750 (44,5) | .550 (14,0) | .640 (16,3) |

F1600CP
(3 and 6Amp)
Dimensions

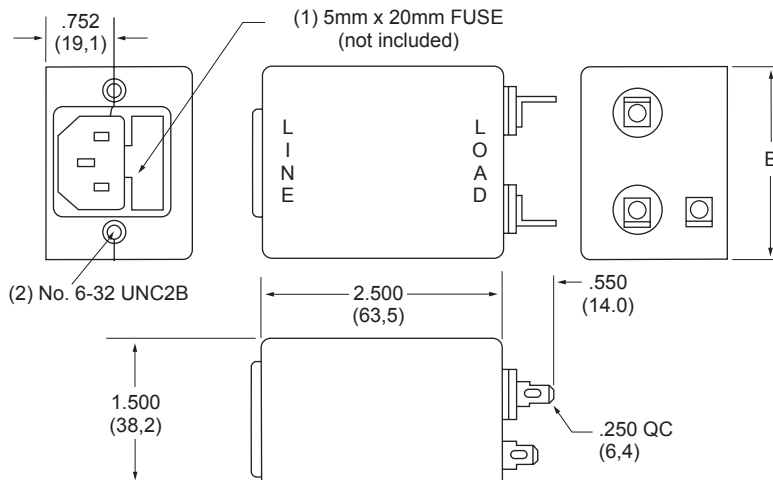
Refer to Page 40
for Standard
Mounting Cutouts



(2) No. 6-32
UNC2B

F1600FA
(3 and 6Amp)
Dimensions

Refer to Page 40
for Standard
Mounting Cutouts



(2) No. 6-32 UNC2B

Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses are metric equivalents.

F1700/F1799 RFI Filters

High Performance

Features:

- General Purpose — Designed for Applications with Higher Differential Mode Noise
- Higher Line-to-Line Capacitance for Protection from Pulsed, Intermittent or Continuous RFI
- A Cost-Effective Replacement for Independent Coil Design in Many SMPS Applications
- Available with Integral IEC Connector



Specifications:

Rated Voltage: 250VAC Maximum - 50/60 Hz

| | | |
|-----------------------|--------|--------|
| Rated Current: | 115VAC | 250VAC |
| | 3A | 2.5A |
| | 6A | 4A |
| | 10A | 6A |
| | 20A | 10A |
| 30A | 15A | |

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 | C: IEC Receptacle |
| B: Wire | D: Screw |

Maximum Leakage Current:

| | | | | | |
|---------------------|--------|-------|--------|--------|--------|
| Each Line to Ground | F1700 | F1710 | F1720 | F1740 | F1799 |
| 115VAC, 60Hz: | 0.40mA | .15mA | .002mA | .060mA | 0.25mA |
| 250VAC, 50Hz: | 0.75mA | .25mA | .005mA | .120mA | 0.45mA |

Agency Approvals:

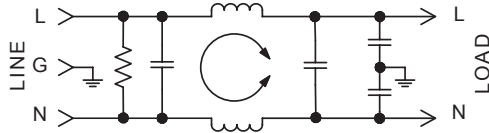


E78454

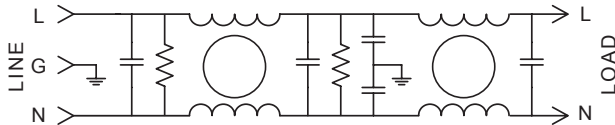
064179

72031235
Except F1700DD30

F1700 Simplified Schematic



F1799 Simplified Schematic

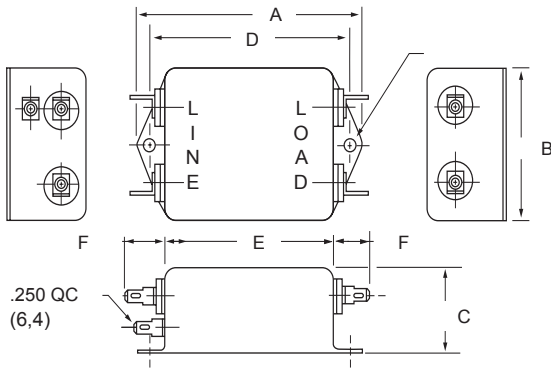


SINGLE PHASE FILTERS

| Nominal Current Rating | Part Number | Termination Line/Load | MODE | MINIMUM INSERTION LOSS - dB (50 ohm Circuit) | | | | | |
|------------------------|-------------|-----------------------|--------------|--|-----|-----|-----|----|----|
| | | | | .15 | .50 | 1.0 | 5.0 | 10 | 30 |
| 3A | F1700AA03 | QC/QC | Common | 20 | 35 | 43 | 52 | 55 | 50 |
| | F1700BB03 | Wire/Wire | Differential | 25 | 60 | 65 | 65 | 50 | 50 |
| | F1700CA03 | IEC/QC | | | | | | | |
| | F1710AA03 | QC/QC | Common | 20 | 34 | 40 | 45 | 45 | 40 |
| 6A | F1720AA03 | QC/QC | Differential | 35 | 60 | 65 | 60 | 55 | 40 |
| | F1740AA03 | QC/QC | Common | 20 | 30 | 35 | 35 | 35 | 40 |
| | F1700AA06 | QC/QC | Differential | 15 | 50 | 65 | 60 | 60 | 45 |
| | F1700BB06 | Wire/Wire | | | | | | | |
| 10A | F1700CA06 | IEC/QC | | | | | | | |
| | F1700AA10 | QC/QC | Common | 10 | 22 | 30 | 46 | 50 | 45 |
| | F1700BB10 | Wire/Wire | Differential | 20 | 45 | 60 | 65 | 60 | 55 |
| 20A | F1700CA10 | IEC/QC | | | | | | | |
| | F1700AA20 | QC/QC | Common | 10 | 22 | 30 | 42 | 47 | 40 |
| 30A | F1700DD20 | Screw/Screw | Differential | 15 | 45 | 60 | 65 | 60 | 55 |
| | F1720DD20 | | | | | | | | |
| 30A | F1700DD30 | Screw/Screw | Common | 7 | 15 | 20 | 34 | 42 | 40 |
| | F1799DD30 | Screw/Screw | Differential | 15 | 45 | 65 | 65 | 60 | 55 |
| | | | | 10 | 45 | 55 | 60 | 60 | 50 |
| | | | | 15 | 65 | 65 | 65 | 60 | 55 |

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

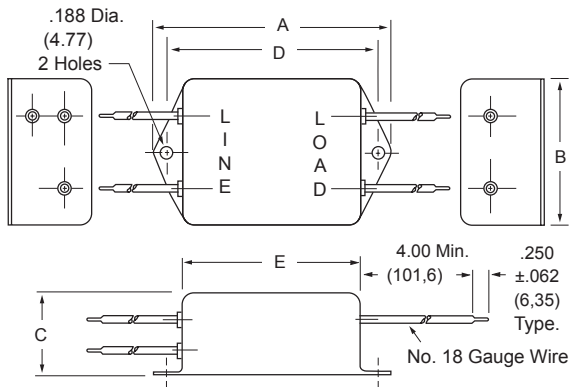
F1700AA, 1710, 1720, 1740 (3, 6 and 10Amp) Dimensions



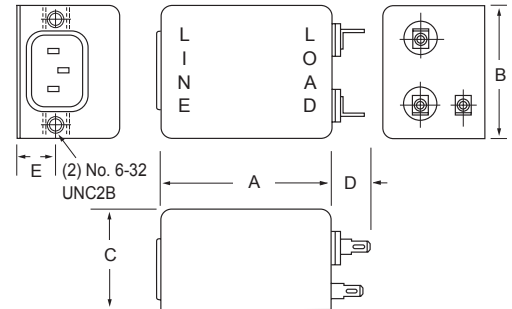
| Amps | A | B | C | D | E | F |
|------|----------------------------------|-----------------|-----------------|-----------------|-----------------|----------------|
| 3A | 2.750 (69,8) | 1.750 (44,4) | 1.125 (28,5) | 2.375 (60,3) | 2.000 (50,8) | .550 (14,0) |
| 6A | 3.312 (84,1) | 2.000 (50,8) | 1.125 (28,5) | 2.940 (74,7) | 2.500 (63,5) | .550 (14,0) |
| 10A | 3.312 (84,1) | 2.000 (50,8) | 1.500 (38,2) | 2.940 (74,7) | 2.500 (63,5) | .550 (14,0) |
| 20A | See 1700DD20 for Case Dimensions | | | | | |

F1700BB (3, 6 and 10Amp) Dimensions

| Amps | A | B | C | D | E |
|------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 3A | 2.750 (69,8) | 1.750 (44,4) | 1.125 (28,5) | 2.375 (60,3) | 2.000 (50,8) |
| 6A | 3.312 (84,1) | 2.000 (50,8) | 1.125 (28,5) | 2.940 (74,7) | 2.500 (63,5) |
| 10A | 3.312 (84,1) | 2.000 (50,8) | 1.500 (38,1) | 2.940 (74,7) | 2.500 (63,5) |



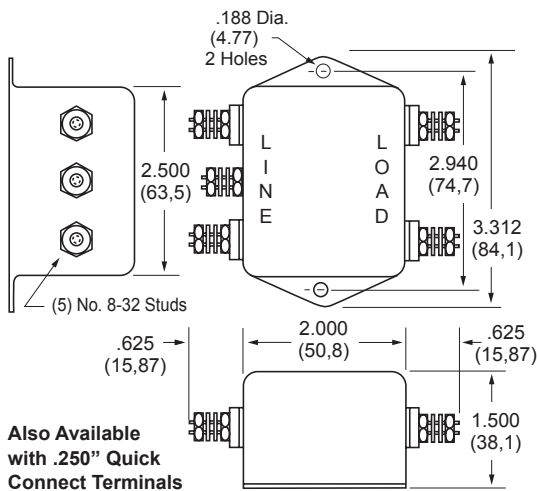
F1700CA (3, 6 and 10Amp) Dimensions



Refer to Page 40 for Standard Mounting Cutouts

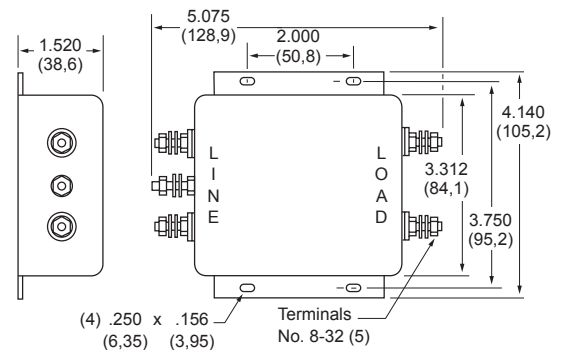
| Amps | A | B | C | D | E |
|------|-----------------|-----------------|-----------------|----------------|----------------|
| 3A | 2.000 (50,8) | 2.000 (50,8) | 1.500 (38,1) | .550 (14,0) | .565 (14,3) |
| 6A | 2.500 (63,5) | 2.000 (50,8) | 1.500 (38,1) | .550 (14,0) | .565 (14,3) |
| 10A | 2.500 (63,5) | 2.000 (50,8) | 1.500 (38,1) | .550 (14,0) | .565 (14,3) |

F1700DD20 (20Amp) Dimensions

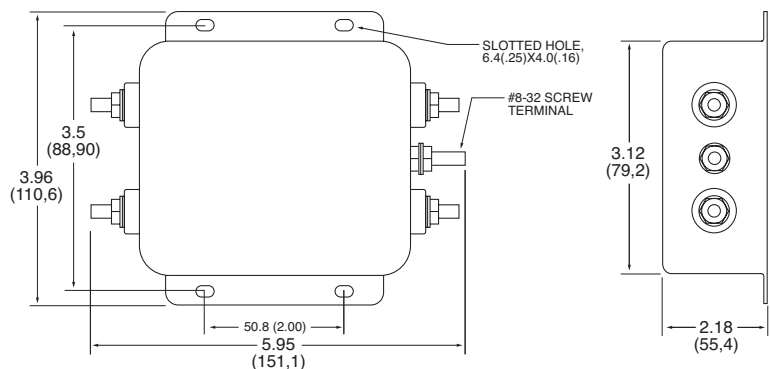


Also Available with .250" Quick Connect Terminals

F1700DD30 (30Amp) Dimensions



F1799DD (30Amp) Dimensions



Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses are metric equivalents.

F1760/F1770/F1780 RFI Filters

High Performance

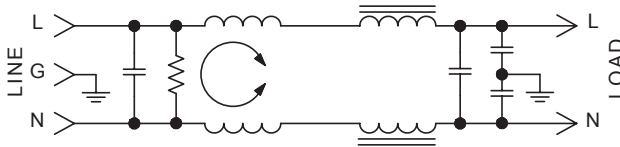
SINGLE PHASE FILTERS



Features:

- Designed for Applications Where Switching Power Supplies, SCR's and TTL Circuits Are Utilized
- Protection from Pulsed, Intermittent or Continuous RFI
- Effective CM and DM Suppression for Most FCC VDE Requirements Down to 150KHz
- Available in Stud and Quick Connect Terminal Versions

F1760 Simplified Schematic



Specifications:

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

Rated Current: 115VAC 250VAC
20A 14A

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
D: Screw

Maximum Leakage Current:

Each Line to Ground **F1760/1770/1780**

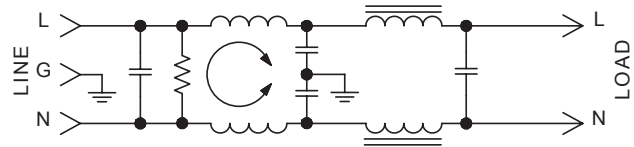
115VAC, 60Hz: 0.5mA

250VAC, 50Hz: 1.0mA

Agency Approvals:



F1770 Simplified Schematic



| 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 | 20 | 30 | |
| 3A | F1760AA03 | QC/QC | Common | 15 | 30 | 40 | 45 | 50 | 45 | 45 | |
| | F1760DD03 | Screw/Screw | | Differential | 40 | 65 | 65 | 60 | 55 | 55 | |
| | F1780AA03 | QC/QC | Common | 13 | 25 | 40 | 60 | 60 | 55 | 50 | |
| | F1780DD03 | Screw/Screw | | Differential | 40 | 65 | 65 | 62 | 55 | 45 | |
| 6A | F1760AA06 | QC/QC | Common | 15 | 30 | 35 | 35 | 44 | 43 | 42 | |
| | F1760DD06 | Screw/Screw | | Differential | 40 | 65 | 65 | 65 | 53 | 52 | |
| | F1780AA06 | QC/QC | Common | 13 | 30 | 40 | 65 | 65 | 53 | 48 | |
| | F1780DD06 | Screw/Screw | | Differential | 40 | 65 | 65 | 62 | 55 | 45 | |
| 10A | F1760AA10 | QC/QC | Common | 15 | 30 | 35 | 50 | 50 | 40 | 40 | |
| | F1760DD10 | Screw/Screw | | Differential | 40 | 65 | 65 | 55 | 50 | 50 | |
| | F1780AA10 | QC/QC | Common | 13 | 20 | 35 | 65 | 65 | 55 | 50 | |
| | F1780DD10 | Screw/Screw | | Differential | 40 | 65 | 65 | 62 | 55 | 45 | |
| 20A | F1760AA20 | QC/QC | Common | 12 | 25 | 31 | 42 | 47 | 50 | 40 | |
| | F1760DD20 | Screw/Screw | | Differential | 41 | 65 | 65 | 65 | 60 | 60 | |
| | F1780AA20 | QC/QC | Common | 12 | 30 | 32 | 60 | 60 | 60 | 55 | |
| | F1780DD20 | Screw/Screw | | Differential | 41 | 65 | 65 | 65 | 60 | 60 | |