

# 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		Differential	7	64	70	70	70	58
	F1300CA03	IEC/QC								
	F1300CP03	IEC/PC								
	F1350AA03	QC/QC	Common	30	60	65	65	65	65	
	F1350BB03	Wire/Wire		Differential	7	64	70	70	70	58
F1350CA03	IEC/QC									
F1350CP03	IEC/PC									
F1399AA03	QC/QC	Common	40	65	65	65	65	40		
F1399BB03	Wire/Wire		Differential	12	55	70	65	60	50	
F1399CA03	IEC/QC									
6A	F1300AA06	QC/QC		Common	12	48	60	65	65	65
	F1300BB06	Wire/Wire	Differential		10	40	70	70	70	60
	F1300CA06	IEC/QC								
	F1350AA06	QC/QC		Common	2	40	60	65	65	65
	F1350BB06	Wire/Wire	Differential		10	40	70	70	70	60
	F1350CA06	IEC/QC								
F1399AA06	QC/QC	Common		30	55	65	65	65	40	
F1399BB06	Wire/Wire		Differential	5	40	70	65	60	50	
F1399CA06	IEC/QC									
10A	F1300AA10	QC/QC		Common	12	48	60	65	65	65
	F1300BB10	Wire/Wire	Differential		13	13	64	70	67	56
	F1300CA10	IEC/QC								
	F1350AA10	QC/QC		Common	2	40	60	65	65	65
	F1350BB10	Wire/Wire	Differential		13	13	64	70	67	56
	F1350CA10	IEC/QC								
F1399AA10	QC/QC	Common		5	40	52	60	60	50	
F1399BB10	Wire/Wire		Differential	5	12	50	65	60	55	
F1399CA10	IEC/QC									
F1399DD10	Screw/Screw									
15A	F1300AA15	QC/QC	Common	14	35	44	56	58	55	
			Differential	15	10	45	70	67	56	
20A	F1300AA20	QC/QC	Common	5	44	60	65	65	60	
			Differential	—	—	35	60	57	45	
	F1350AA20	QC/QC	Common	2	35	61	63	60	50	
			Differential	—	—	35	60	57	45	
F1399AA20	QC/QC	Common	5	40	52	60	60	52		
F1399DD20	Screw/Screw		Differential	5	12	50	65	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: PC – P.C. Board

**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:**



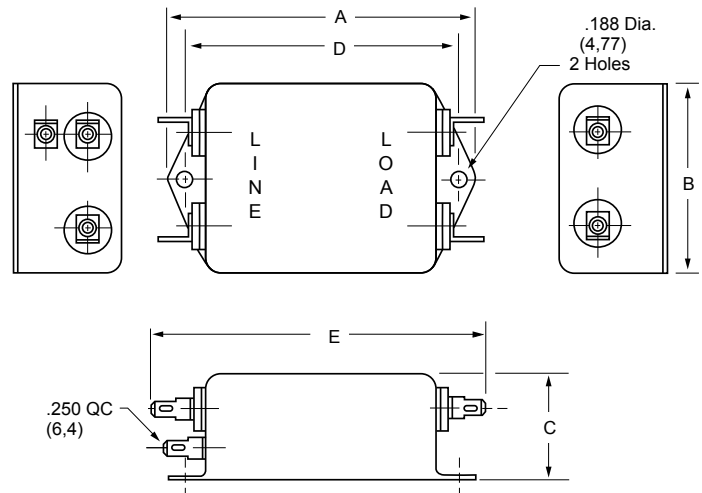
Except 15Amp

General Purpose

SINGLE PHASE FILTERS

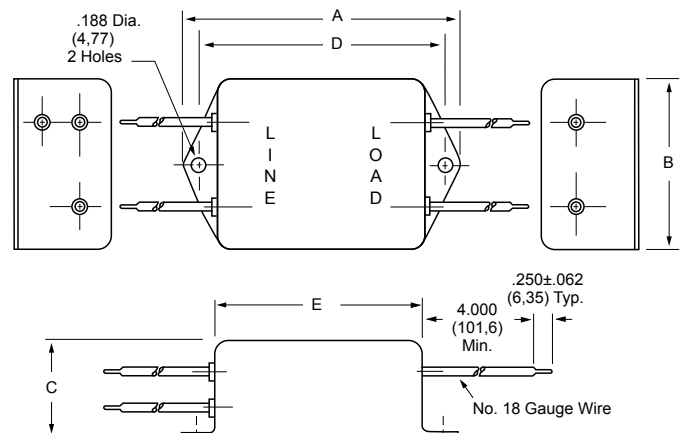
### F1300AA (1, 3, 6, 10 and 15Amp) F1350AA (1, 3, 6 and 10Amp) Dimensions

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)

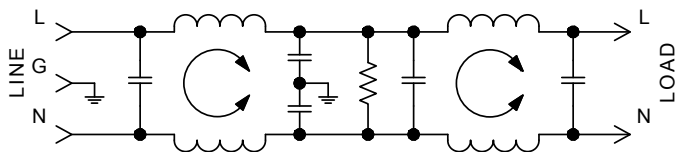


### F1300BB/F1350BB (1, 3, 6 and 10Amp) Dimensions

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)



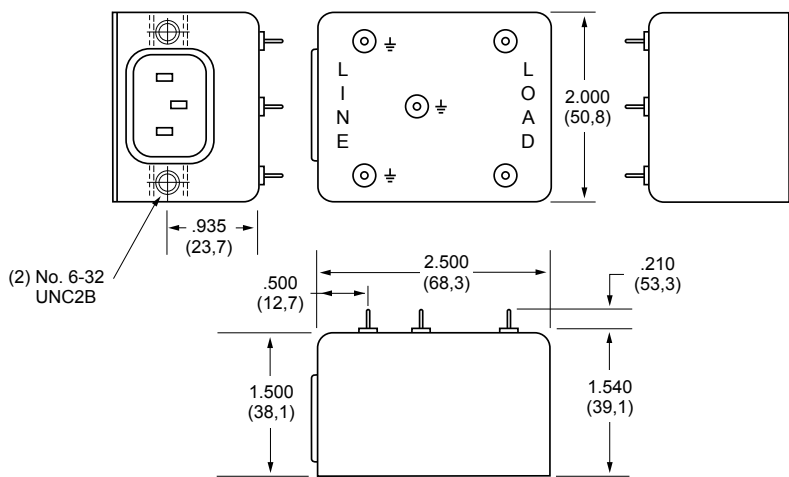
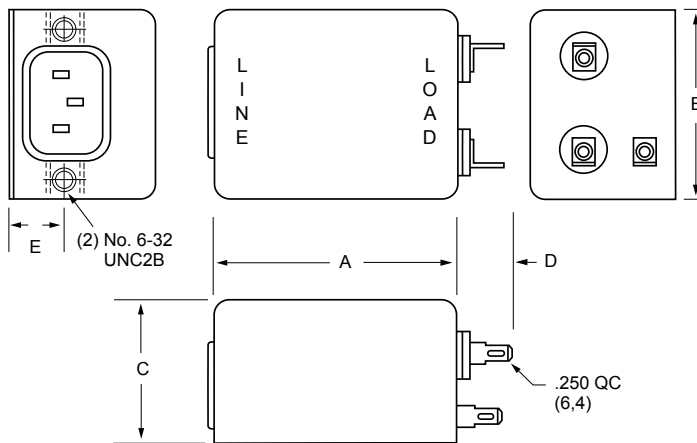
### F1300/F1350 Simplified Schematic



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

Refer to Page 40  
for Standard  
Mounting Cutouts

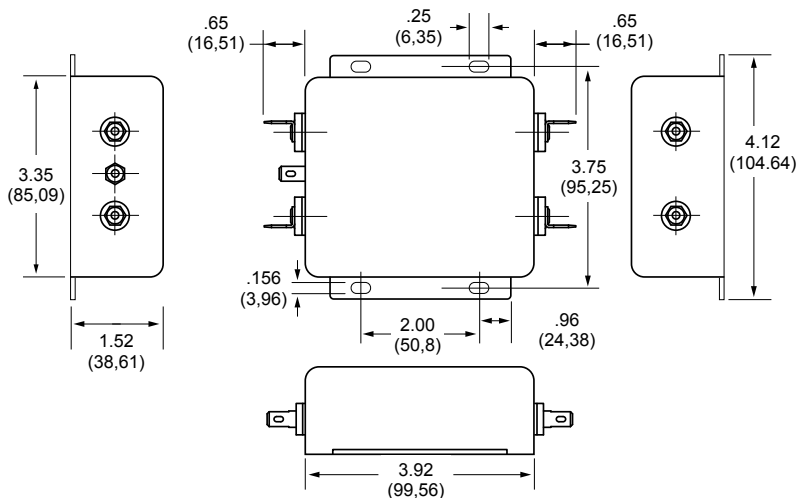
Amps	A	B	C	D	E
3A	2.500 (63,6)	2.000 (50,8)	1.500 (38,1)	.550 (14,0)	.565 (14,3)
6A	2.500 (63,5)	2.000 (50,8)	1.500 (38,1)	.550 (14,0)	.565 (14,3)
10A	2.880 (73,1)	2.120 (53,8)	1.500 (38,1)	.65 (16,0)	.565 (14,3)



### F1300CP/F1350CP (3Amp Only) Dimensions

Refer to Page 40  
for Standard  
Mounting Cutouts

### F1300AA/F1350AA (20Amp Only) Dimensions

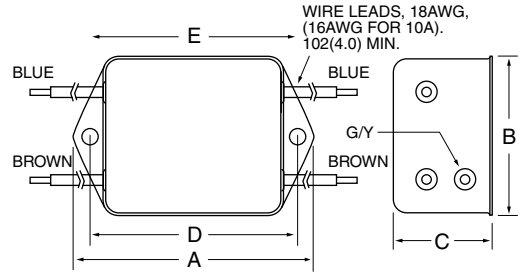
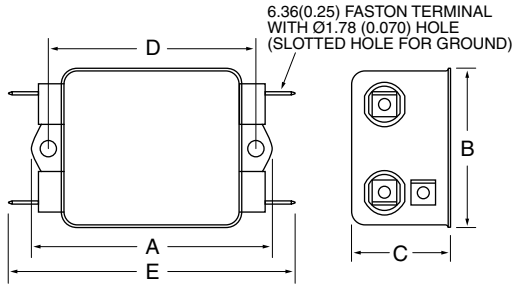
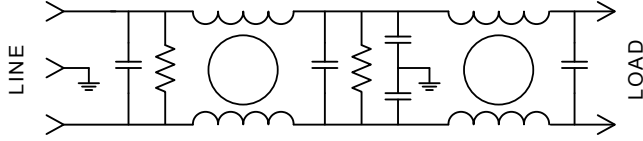


# F1300/F1399 RFI Filters (continued)

General Purpose

SINGLE PHASE FILTERS

## F1399 Simplified Schematic

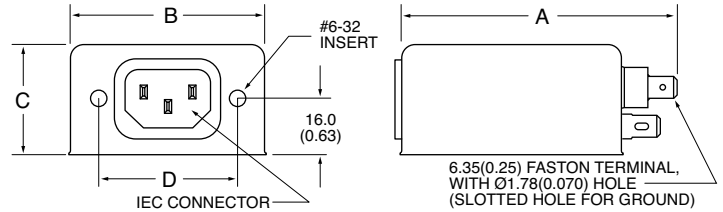


## F1399BB (2, 3, 6 and 10Amp) Dimensions

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)

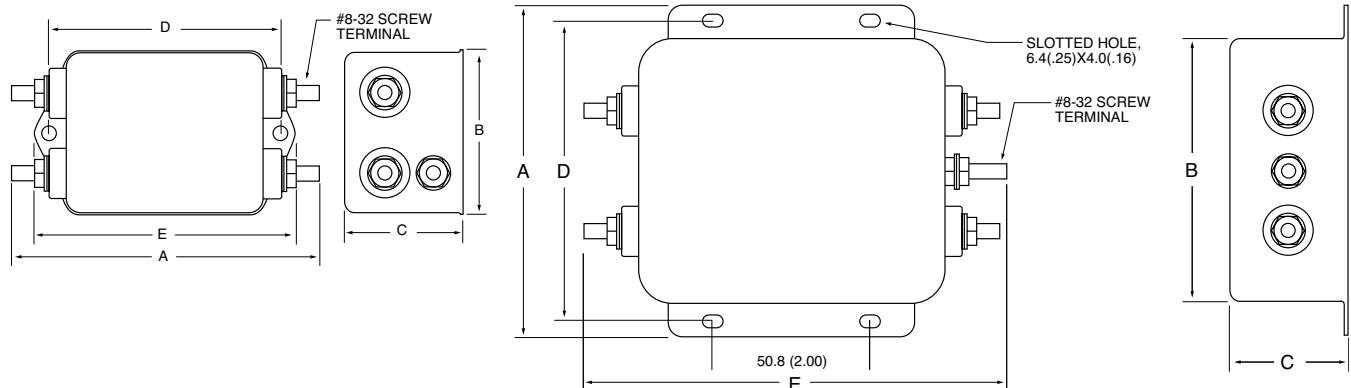


## F1399CA (3, 6 and 10Amp) Dimensions

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)

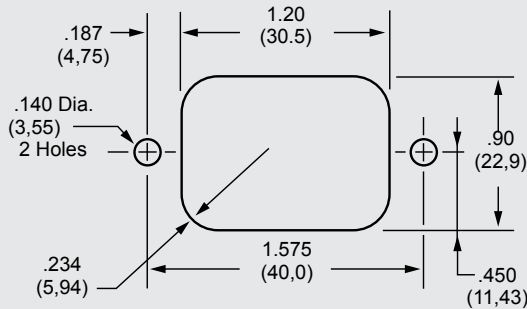
## F1399DD (10 and 20Amp) Dimensions

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)

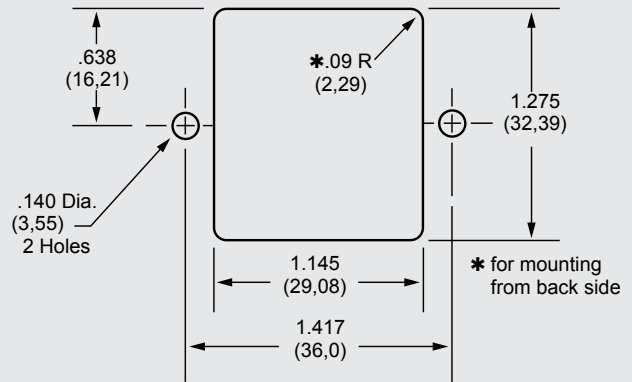


# Standard Mounting Cutouts

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



## F1500FA, F1600FA,

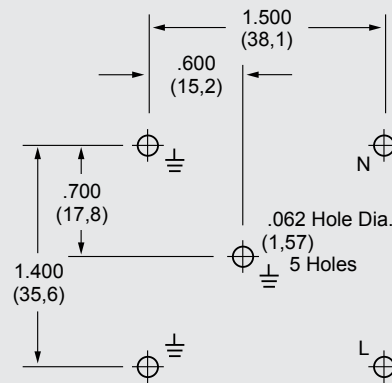


### How to Order

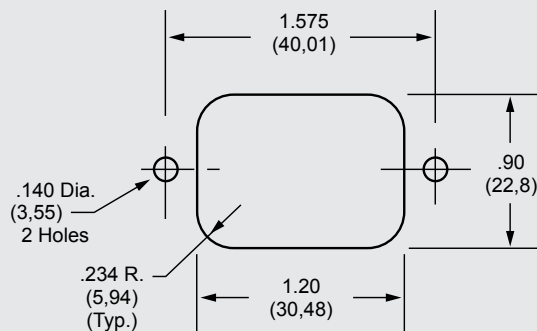
The Curtis part numbering system is made up of four elements. Each element denotes a specific requirement (mechanical or electrical) which, when properly sequenced, fully identifies the required catalog filter. As shown, the first five alpha/numeric characters denote the series type; the sixth character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

## F1300CP, F1600CP



## F5500/5600/5700 SERIES



SINGLE PHASE FILTERS

**F1100**      **X**      **X**      **X**

**SERIES**  
PE = Power Entry  
PM = Medical  
Power Entry

**LINE TERMINATION**  
A = Quick Connects  
B = Wire Leads  
C = IEC Connector  
D = Screw Terminals  
(20 & 30 amp only)  
F = Fused IEC  
P = Printed Circuit Pins  
W = Dual Fused IEC  
J = Switched IEC

**LOAD TERMINATION**  
A = Quick Connects  
B = Wire Leads  
D = Screw Terminals  
(20 & 30 amp only)  
P = Printed Circuit Pins  
S = Solder Tab

**CURRENT RATING**  
01 = 1 Amp  
03 = 3 Amps  
06 = 6 Amps  
10 = 10 Amps  
15 = 15 Amps  
20 = 20 Amps  
30 = 30 Amps

