

# F1500 RFI Filters

High Performance

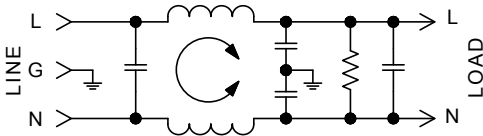
SINGLE PHASE FILTERS



## 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

## F1500AX/F1500CX Simplified Schematic



## Specifications:

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

<b>Rated Current:</b>	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
- B: Wire
- C: IEC Receptacle
- F: IEC Receptacle with Fuse Holder

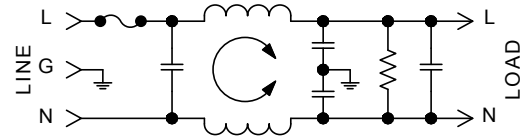
**Maximum Leakage Current:**

Each Line to Ground	<b>F1500</b>
115VAC, 60Hz:	0.25mA
250VAC, 50Hz:	0.40mA

**Agency Approvals:**



## F1500FX 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	F1500AA03	QC/QC	Common Differential	32 35	43 60	50 65	50 60	50 55	50 40
	F1500CA03	IEC/QC							
	F1500FA03	Fused IEC/QC							
	F1500CB03	QC/Wire							
6A	F1500AA06	IEC/QC	Common Differential	32 30	42 60	45 65	45 65	45 60	45 50
	F1500CA06	Fused IEC/QC							
	F1500FA06	QC/Wire							
	F1500CB06								
10A	F1500AA10	QC/QC	Common Differential	29 15	36 50	39 65	45 65	45 60	45 50
	F1500CA10	IEC/QC							
	F1500FA10	Fused IEC/QC							
	F1500CB10								
15A	F1500CA15	IEC/QC	Common Differential	26 35	32 60	36 65	44 65	46 65	52 65
	F1500CB15	IEC/Wire							

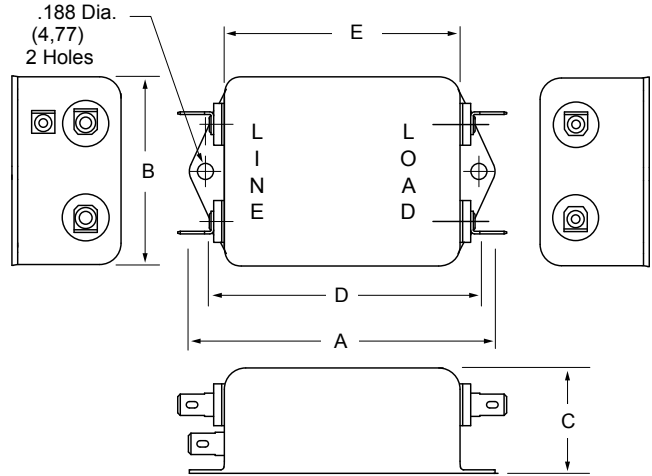
NOTE: Other combinations of terminals may be specified on special order.



### F1500AA (3 and 10Amp) Dimensions

Refer to Page 40  
for Standard  
Mounting Cutouts

Amps	A	B	C	D	E
3A	3.31 (84,1)	2.000 (50,8)	1.13 (28,7)	2.938 (74,6)	2.50 (63,5)
10A	3.31 (84,1)	2.000 (50,8)	1.50 (38,1)	2.938 (74,6)	2.50 (63,5)

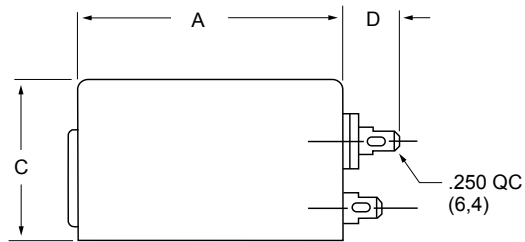
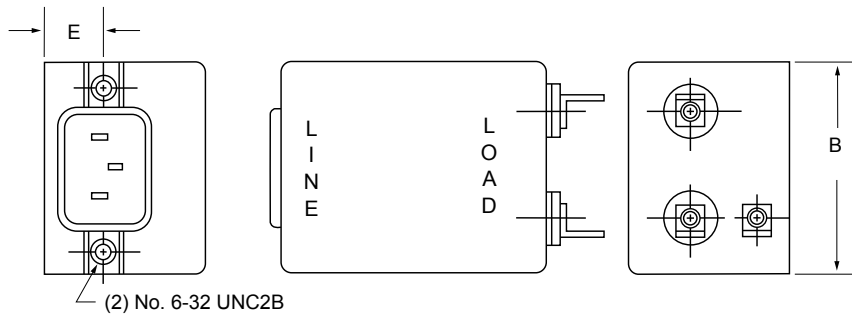


### F1500CA (3, 6, 10 and 15Amp) Dimensions

### F1500CB (3, 6, 10 and 15Amp) Dimensions

Refer to Page 40  
for Standard  
Mounting Cutouts

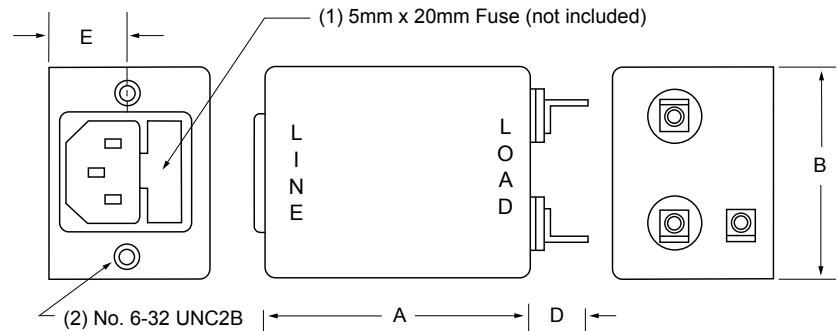
Amps	A	B	C	D	E
3A	2.000 (50,8)	2.000 (50,8)	1.500 (38,1)	.550 (14,0)	.565 (14,3)
6A	2.500 (63,5)	2.000 (50,8)	1.500 (38,1)	.550 (14,0)	.565 (14,3)
10A	2.500 (63,5)	2.000 (50,8)	1.500 (38,1)	.550 (14,0)	.565 (14,3)
15A	3.25 (82,6)	2.25 (57,2)	1.75 (44,5)	.550 (14,0)	.705 (17,9)



### F1500FA (3, 6 and 10Amp) Dimensions

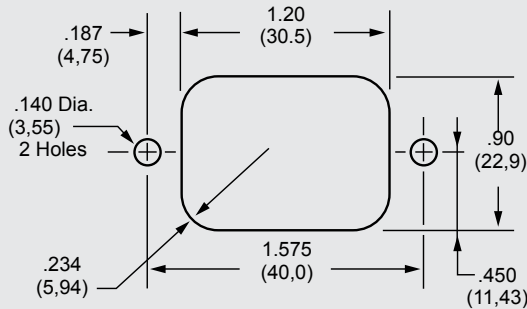
Refer to Page 40  
for Standard  
Mounting Cutouts

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)

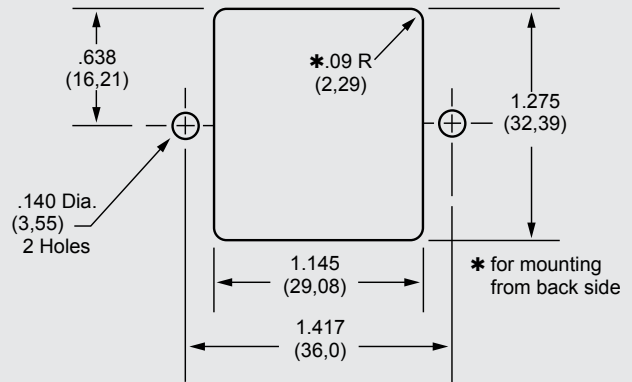


# Standard Mounting Cutouts

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



## F1500FA, F1600FA,

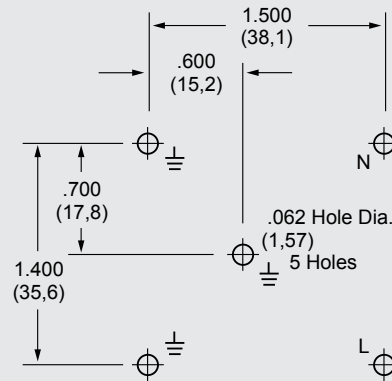


### How to Order

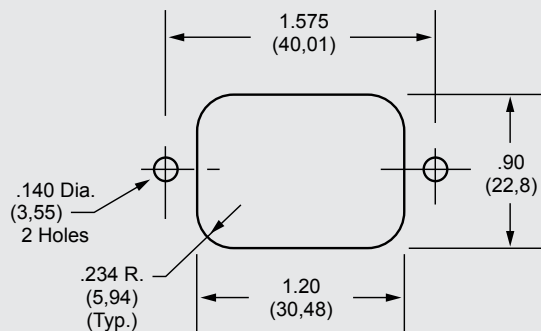
The Curtis part numbering system is made up of four elements. Each element denotes a specific requirement (mechanical or electrical) which, when properly sequenced, fully identifies the required catalog filter. As shown, the first five alpha/numeric characters denote the series type; the sixth character (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			CURRENT RATING
PE = Power Entry			01 = 1 Amp
PM = Medical Power Entry			03 = 3 Amps
			06 = 6 Amps
LINE TERMINATION			10 = 10 Amps
A = Quick Connects			15 = 15 Amps
B = Wire Leads			20 = 20 Amps
C = IEC Connector			30 = 30 Amps
D = Screw Terminals			
(20 & 30 amp only)	LOAD TERMINATION		
F = Fused IEC	A = Quick Connects		
P = Printed Circuit Pins	B = Wire Leads		
W = Dual Fused IEC	D = Screw Terminals		
J = Switched IEC	(20 & 30 amp only)		
	P = Printed Circuit Pins		
	S = Solder Tab		

