

# EC Series

**Highest Performance Compact  
RFI Power Line Filters  
with IEC Connectors**



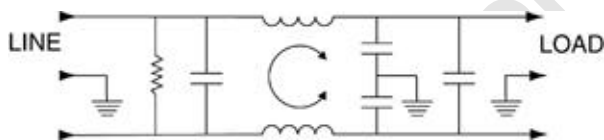
**UL Recognized  
CSA Certified  
VDE Approved  
SEV Approved\***

## EC Series

EC series RFI power line filters provide the highest attenuation of any standard filter available in a package size limited by the dimensions of the integral IEC connector. These filters combine high common-mode inductance with high differential-mode capacitance and minimal parasitic elements, for effective attenuation of line-to-ground and line-to-line noise across the frequency range.

Performance and applications are similar to those of the ED series, but with higher differential-mode performance in most applications, due to an additional capacitor on the load side.

## Electrical Schematic



Resistor location for reference only.



## Specifications

Maximum leakage current, each  
line-to-ground @ 120 VAC 60 Hz: .22 mA  
@ 250 VAC 50 Hz: .38 mA

Hipot rating (one minute):  
line-to-ground 1500 VAC  
line-to-line 1450 VDC

Operating frequency: 50/60 Hz

Rated voltage: 120/250 VAC

**Minimum** insertion loss in dB:

Line-to-ground in 50 ohm circuit

Current Rating	Frequency-MHz					
	.15	.5	1	5	10	30
1A	25	35	40	50	50	50
3A	20	30	37	47	48	50
6A	15	22	25	40	45	50
10A	7	14	20	35	39	48

Line-to-line in 50 ohm circuit

Current Rating	Frequency-MHz						
	.15	.5	1	5	10	20	30
1A	5	35	50	60	60	40	40
3A	5	25	45	60	55	34	34
6A	10	10	40	65	60	40	40
10A	10	10	27	65	56	38	38

### EC1, EC2, EC8

1A	5	35	50	60	60	40	40
3A	5	25	45	60	55	34	34
6A	10	10	40	65	60	40	40
10A	10	10	27	65	56	38	38

### EC4

1A	5	35	50	60	60	33	33
3A	5	30	45	60	55	34	34
6A	10	10	40	65	60	33	33

## Line Cord

Line Cord No. GA400:

7 1/2 foot, 3-conductor line cord to mate with EC series.

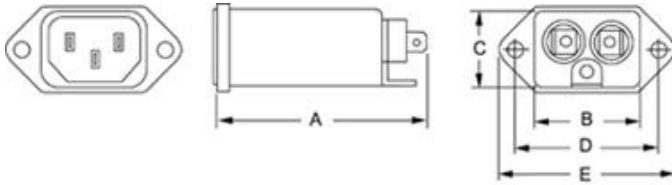
\*Except all 10A models and styles EC4 and EC8.

# Series EC

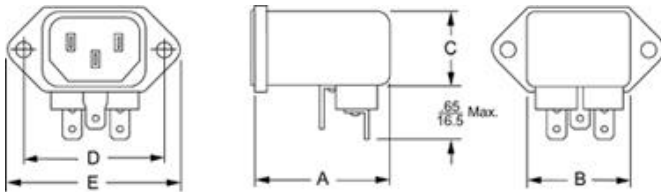
## Case Styles

Metric shown in italics.

### EC1



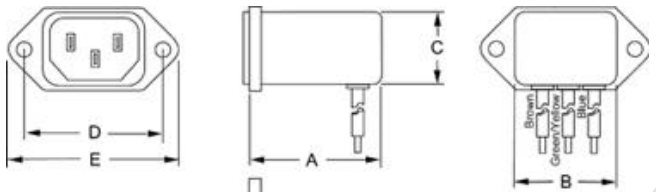
### EC2



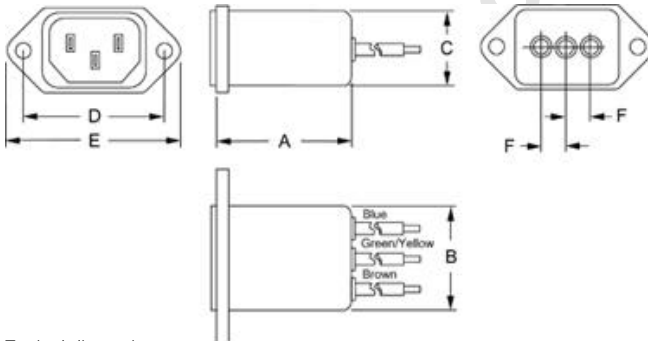
Typical dimensions

Terminals:  $\frac{.250}{6.35}$  (3) Holes:  $\frac{.07}{1.8}$  Dia.(2) Slot:  $\frac{.07 \times .16}{1.8 \times 4.1}$

### EC4



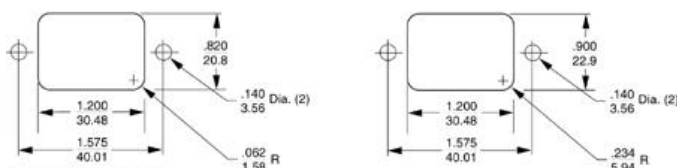
### EC8



Typical dimensions

Wire leads:  $\frac{4.0}{101.6}$  Min. 18 AWG Mounting holes:  $\frac{.132}{3.35}$  Dia.(2)

## Recommended Panel Cutouts



Panel Cutout (front mount)

Panel Cutout (back mount)

Tolerance  $\pm \frac{.005}{0.13}$

Tolerance  $\pm \frac{.005}{0.13}$

Note 1: EC1 and EC8 allow front or back mounting.

Note 2: EC2 and EC4 allow back mounting only.

## Case Dimensions

Metric shown in italics.

Part No.	A (max)	B (max)	C (max)	D $\pm .015$ $\pm .38$	E (max)	F (ref)
1EC1	$\frac{2.62}{66.5}$	$\frac{1.19}{30.2}$	$\frac{0.81}{20.6}$	$\frac{1.575}{40.01}$	$\frac{1.98}{50.3}$	—
1EC2	$\frac{1.97}{50.0}$	$\frac{1.19}{30.2}$	$\frac{0.85}{21.6}$	$\frac{1.575}{40.01}$	$\frac{1.98}{50.3}$	—
1EC4	$\frac{1.97}{50.0}$	$\frac{1.19}{30.2}$	$\frac{0.85}{21.6}$	$\frac{1.575}{40.01}$	$\frac{1.98}{50.3}$	$\frac{.295}{7.5}$
1EC8	$\frac{1.98}{50.3}$	$\frac{1.19}{30.2}$	$\frac{0.81}{20.6}$	$\frac{1.575}{40.01}$	$\frac{1.98}{50.3}$	$\frac{.295}{7.5}$
3EC1	$\frac{2.62}{66.5}$	$\frac{1.19}{30.2}$	$\frac{0.81}{20.6}$	$\frac{1.575}{40.01}$	$\frac{1.98}{50.3}$	—
3EC2	$\frac{1.97}{50.0}$	$\frac{1.19}{30.2}$	$\frac{0.85}{21.6}$	$\frac{1.575}{40.01}$	$\frac{1.98}{50.3}$	—
3EC4	$\frac{1.97}{50.0}$	$\frac{1.19}{30.2}$	$\frac{0.85}{21.6}$	$\frac{1.575}{40.01}$	$\frac{1.98}{50.3}$	$\frac{.295}{7.5}$
3EC8	$\frac{1.98}{50.3}$	$\frac{1.19}{30.2}$	$\frac{0.81}{20.6}$	$\frac{1.575}{40.01}$	$\frac{1.98}{50.3}$	$\frac{.295}{7.5}$
6EC1	$\frac{2.62}{66.5}$	$\frac{1.19}{30.2}$	$\frac{0.81}{20.6}$	$\frac{1.575}{40.01}$	$\frac{1.98}{50.3}$	—
6EC2	$\frac{1.97}{50.0}$	$\frac{1.19}{30.2}$	$\frac{0.85}{21.6}$	$\frac{1.575}{40.01}$	$\frac{1.98}{50.3}$	—
6EC4	$\frac{1.97}{50.0}$	$\frac{1.19}{30.2}$	$\frac{0.85}{21.6}$	$\frac{1.575}{40.01}$	$\frac{1.98}{50.3}$	$\frac{.295}{7.5}$
6EC8	$\frac{1.98}{50.3}$	$\frac{1.19}{30.2}$	$\frac{0.81}{20.6}$	$\frac{1.575}{40.01}$	$\frac{1.98}{50.3}$	$\frac{.295}{7.5}$
10EC1	$\frac{2.62}{66.5}$	$\frac{1.19}{30.2}$	$\frac{0.81}{20.6}$	$\frac{1.575}{40.01}$	$\frac{1.98}{50.3}$	—

## Pricing

Consult your local Corcom sales representative for pricing.

Part No.	Part No.
1EC1	6EC1
1EC2	6EC2
1EC4	6EC4
1EC8	6EC8
3EC1	10EC1
3EC2	
3EC4	
3EC8	

Line Cord No. GA400

Insulating Boot No. FA601