

High Performance EMI Power Inlet Filter

EC Series



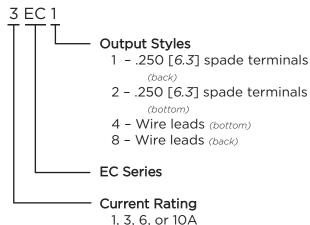
UL Recognized CSA Certified VDE Approved



EC Series

- Three element differential mode circuit provides the highest attenuation of any available standard inlet filter
- High common mode inductance
- High differential mode capacitance
- Effective attenuation of Line to Ground and Line to Line noise across the frequency range
- Performance and application similar to the ED series but with higher differential mode performance
- Includes several termination options

Ordering Information

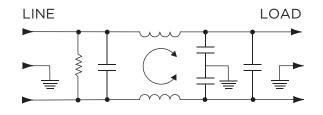


Specifications

Maximum leakage current each Line to Ground:				
@ 120 VAC 60 Hz:	.25 mA			
@250 VAC 50 Hz:	.50 mA			
Hipot rating (one minute):				
Line to Ground:	2250 VDC			
Line to Line:	1450 VDC			
Rated Voltage (max.):	250 VAC			
Operating Frequency:	50/60 Hz			
Rated Current:	1 to 10A			
Operating Ambient Temperature Ran	ge			
(at rated current I _r):	-10°C to +40°C			
In an ambient temperature (T _a) hig	gher than +40°C			

In an ambient temperature (T_a) higher than +40°C the maximum operating current (I₀) is calculated as follows: I₀ = I_r $\sqrt{(85-Ta)/45}$

Electrical Schematic



Available Part Numbers

1EC1	1EC2	1EC4	1EC8
3EC1	3EC2	3EC4	3EC8
6EC1	6EC2	6EC4	6EC8
10EC1			

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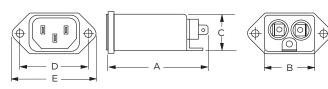


High Performance EMI Power Inlet Filter (continued)

EC Series

Case Styles

EC1



EC2



Typical Dimensions:

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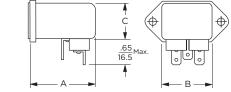
EC4

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Line Inlet (1): IEC 60320-1 C14

Load Terminals (2):

Ground Terminal (1):



.250 [6.3] with .07 [1.8] Dia. hole .250 [6.3] with .07 x .16 [1.8 x 3.8] slot

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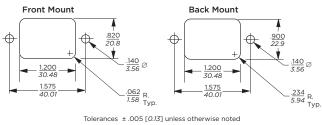
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Case Dimensions

Part	Α	В	С	D	Е	F
No.	(max.)	(max.)	(max.)	<u>±.015</u> ±.38	(max.)	(ref.)
EC1	2.62	1.19	0.81	1.575	1.98	_
	66.5	30.2	20.6	40.01	50.3	
EC2	1.97	1.19	0.85	1.575	1.98	_
EC2	50.0	30.2	21.6	40.01	50.3	
	1.97	1.19	0.85	1.575	1.98	.295
EC4	50.0	30.2	21.6	40.01	50.3	7.5
EC8	1.98	1.19	0.81	1.575	1.98	.298
	50.0	30.2	20.6	40.01	50.3	7.5

Recommended Panel Cutouts

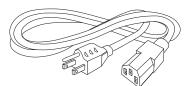


 Note 1:
 EC1 and EC8 allow for front or back mounting

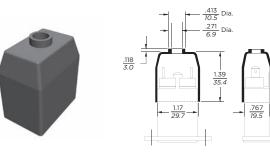
 Note 2:
 EC2 and EC4 allow for back mounting only

Accessories

GA400: NEMA 5-15P to IEC 60320-1 C-13 line cord



FA601: Insulating Shroud



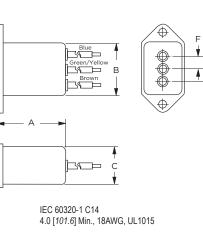
EC8



Typical Dimensions:

Line Inlet (1):

Wire Leads:





Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

For email, phone or live chat, please go to te.com/help corcom.com

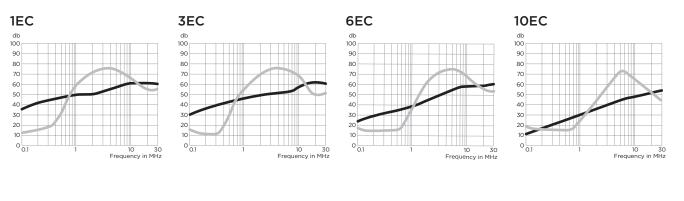
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EC Series

Performance Data

Typical Insertion Loss

Measured in closed 50 Ohm system



Common Mode / Asymmetrical (L-G) Differential Mode / Symmetrical (L-L)

Minimum Insertion Loss

Measured in closed 50 Ohm system

Common Mode / Asymmetrical (Line to Ground)						
Current	Frequency – MHz					
Rating	.15	.5	1	5	10	30
1A	25	35	40	50	50	50
ЗA	20	30	37	47	48	50
6A	15	22	25	40	45	50
10A	7	14	20	35	39	48

Differential Mode /	Symmotrical	(Lino to Lino)
Differential Mode /	Symmetrical	(Line to Line)

Current	Frequency – MHz						
Rating	.15	.5	1	5	10	20	30
EC1, EC2 & EC	8						
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

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