Catalog: 1654001 Issue Date: 06.2011

High Performance EMI Power Inlet Filter

EC Series

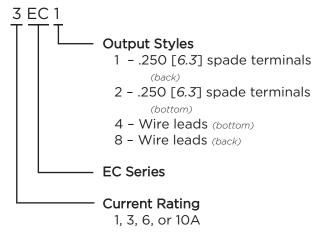


UL Recognized CSA Certified VDE Approved

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



EC2 EC2

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

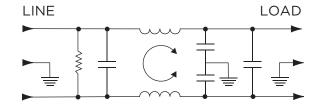
Operating Frequency: 50/60 Hz

Rated Current: 1 to 10A

Operating Ambient Temperature Range

(at rated current I_r): -10°C to +40°C In an ambient temperature (I_a) higher than +40°C the maximum operating current (I_o) is calculated as follows: $I_o = I_r \sqrt{(85-T_a)/45}$

Electrical Schematic



Available Part Numbers

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



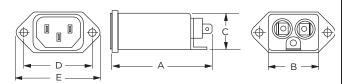
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High Performance EMI Power Inlet Filter (continued)

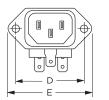
EC Series

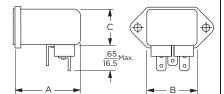
Case Styles

EC1



EC2



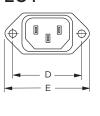


Typical Dimensions:

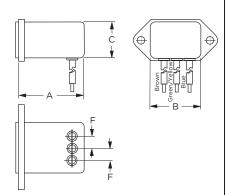
Line Inlet (1): IEC 60320-1 C14

Load Terminals (2): .250 [6.3] with .07 [1.8] Dia. hole Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot

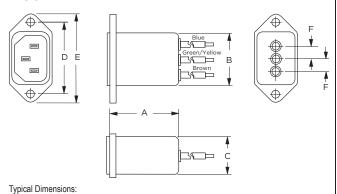
EC4



Line Inlet (1):



EC8

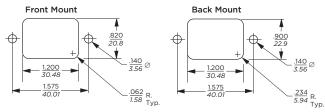


IEC 60320-1 C14

Case Dimensions

Part	Α	В	С	D	Е	F
No.	(max.)	(max.)	(max.)	± .015 ± .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	_
	50.0	30.2	21.6	40.01	50.3	
FC4	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

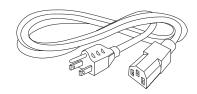


Tolerances ± .005 [0.13] unless otherwise noted

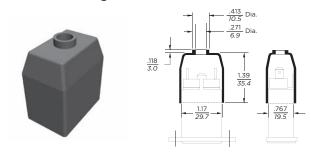
Note 1: EC1 and EC8 allow for front or back mounting Note 2: EC2 and EC4 allow for back mounting only

Accessories

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



FA601: Insulating Shroud



4.0 [101.6] Min., 18AWG, UL1015



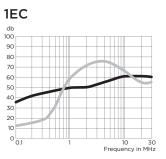
High Performance EMI Power Inlet Filter (continued)

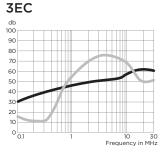
EC Series

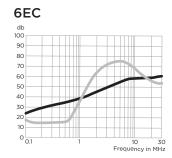
Performance Data

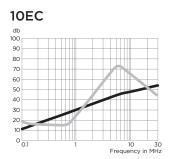
Typical Insertion Loss

Measured in closed 50 Ohm system









Catalog: 1654001

Issue Date: 06.2011

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	
3A	20	30	37	47	48	50	
6A	15	22	25	40	45	50	
10A	7	14	20	35	39	48	

Differential Mode / Symmetrical (Line to Line)

Current	Frequency – MHz						
Rating	.15	.5	1	5	10	20	30
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

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