1 to 10A



High Performance EMI Power Inlet Filter

EC Series

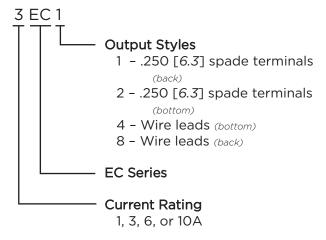


UL Recognized CSA Certified VDE Approved

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





Catalog: 1654001

Issue Date: 08.2010

Specifications

Rated Current:

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

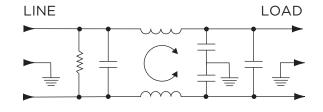
Rated Voltage (max.): 250 VAC

Operating Frequency: 50/60 Hz

Operating Ambient Temperature Range

(at rated current I_r): -10°C to +40°C In an ambient temperature (T_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			



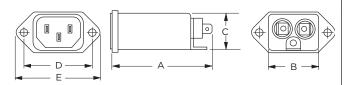
Catalog: 1654001 Issue Date: 08.2010

High Performance EMI Power Inlet Filter (continued)

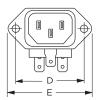
EC Series

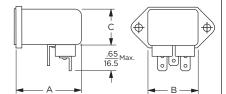
Case Styles

EC1



EC2





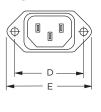
Typical Dimensions:

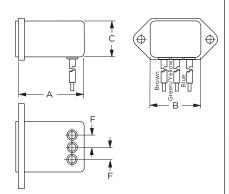
Line Inlet (1): IEC 60320-1 C14

Load Terminals (2): .250 [6.3 Ground Terminal (1): .250 [6.3

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

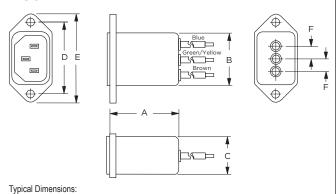
EC4





EC8

Line Inlet (1):



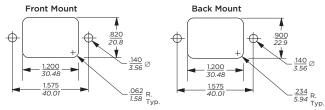
IEC 60320-1 C14

4.0 [101.6] Min., 18AWG, UL1015

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	
ECI	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

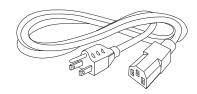


Tolerances ± .005 [0.13] unless otherwise noted

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

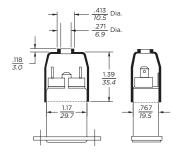
Accessories

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



FA601: Insulating Shroud







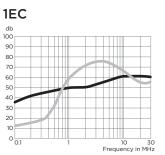
High Performance EMI Power Inlet Filter (continued)

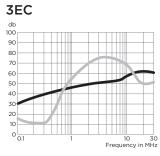
EC Series

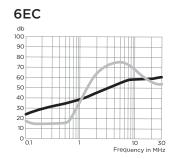
Performance Data

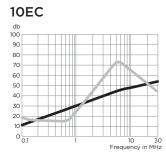
Typical Insertion Loss

Measured in closed 50 Ohm system









Catalog: 1654001

Issue Date: 08.2010

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
EC [,]	1, 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	4							
	1A	5	35	50	60	60	33	33
	3A	5	30	45	60	55	34	34
	6A	10	10	40	65	60	33	33