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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Catalog: 1654001 Issue Date: 06.2011

Compact and Cost-effective Dual Stage RFI Power Line Filters

EMC Series

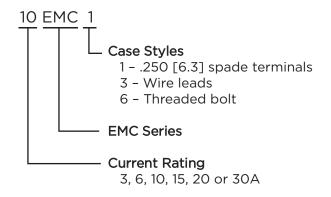


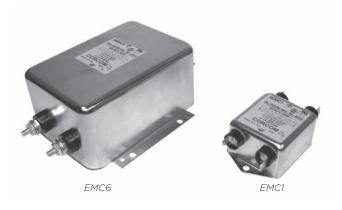
UL Recognized CSA Certified VDE Approved



- Compact dual stage filter series
- Cost-effective design
- Current rating up to 30A
- High differential mode attenuation in the lower frequency range
- High common mode performance
- Suitable for switching mode power supplies

Ordering Information





Specifications

Maximum leakage current each Line to Ground:

	3, 6, 10A	15, 20, 30A
@ 120 VAC 60 Hz:	.21 mA	.73 mA
@250 VAC 50 Hz:	.43 mA	1.52 mA

Hipot rating (one minute):

Line to Ground: 2250 VDC
Line to Line: 1450 VDC

Rated Voltage (max): 250 VAC

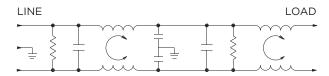
Operating Frequency: 50/60 Hz

Rated Current: 3 to 30A

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

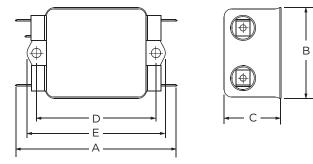


Compact and Cost-effective Dual Stage RFI Power Line Filters (continued)

EMC Series

Case Styles

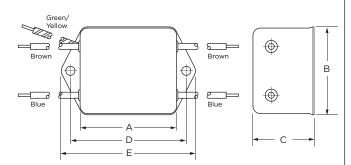
EMC1



Typical Dimensions:

Line/Load Terminals (4): Ground Terminal (1): Mounting Holes (2): .250 [6.3] with .07 [1.8] Dia. hole .250 [6.3] with .07 x .16 [1.8 x 3.8] slot .187 ±.008 [4.75 ±.20] Dia.

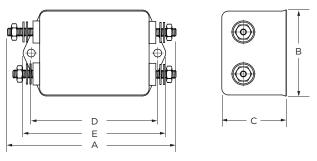
EMC3



Typical Dimensions:

Wire leads (5): Mounting Holes (2): 4.0 [101.6] Min., AWG18 (AWG16 for 15A) .187 ±.008 [4.75 ±.20] Dia.

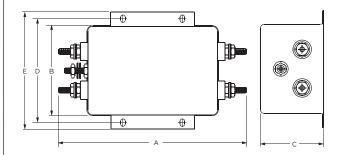
EMC6



Typical Dimensions:

Terminals (5): Mounting Holes (4): 8-32, Torque 18 lbf-in. [2.03 N-m] max. \pm 2 [.22] .187 \pm .008 [4.75 \pm .20] Dia.

30EMC6



Typical Dimensions:

Terminals (5): Mounting Slots (4): 10-32, Torque 27 lbf-in. [3.05 N-m] max. \pm 3 [.34] .203 x .156 [5.16 x 3.96]

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Case Dimensions

Part No.	Α	В	С	D	Е
Part No.	(max)	(max)	(max)	(max)	(max)
3EMC1	3.35	1.81	1.16	2.375	2.78
3EMCI	85.1	46	29.5	60.3	70.6
CEMC1	3.85	2.07	1.16	2.938	3.35
6EMC1	97.8	52.6	29.5	74.6	85.1
10EMC1	3.85	2.07	1.53	2.938	3.35
IOEMCI	97.8	52.6	38.91	74.6	85.1
15EMC1	4.97	2.25	1.78	4.063	4.46
20EMC1	126.2	57.2	45.2	103.2	113.3
3EMC3	2.07	1.81	1.16	2.375	2.78
3EMC3	52.6	46	29.5	60.3	70.6
6EMC3	2.56	2.07	1.16	2.938	3.35
OEMC3	65	52.6	29.5	74.6	85.1
10EMC3	2.56	2.07	1.53	2.938	3.35
IOEMIC3	65	52.6	38.9	74.6	85.1
15EMC3	3.69	2.25	1.78	4.063	4.47
1351403	93.7	57.2	45.2	103.2	113.5
10EMC6	3.94	2.07	1.53	2.938	3.35
IUEMICO	99.9	52.6	38.9	74.6	85.1
15EMC6	5.09	2.25	1.78	4.063	4.47
20EMC6	129.3	57.2	45.2	103.2	113.5
30EMC6	6.05	3.12	2.18	3.5	3.96
SUEIVICO	153.7	79.2	55.4	88.9	100.6



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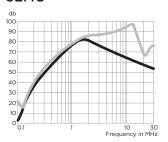
EMC Series

Performance Data

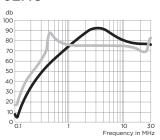
Typical Insertion Loss

Measured in closed 50 Ohm system

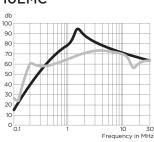
3EMC



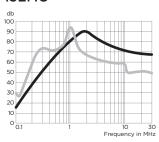
6EMC



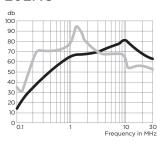
10EMC



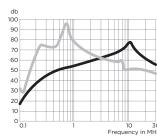
15EMC



20EMC



30EMC



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

Minimum Insertion Loss

Common Mode / Asymmetrical (Line to Ground)

Current	Frequency – MHz								
Rating	.05	.07	.11	.15	1	2	10	20	30
3A	6	6	3	16	65	66	62	60	59
6A	6	6	2	15	65	67	65	62	63
10A	5	2	13	24	72	72	56	50	48
15A	3	1	12	22	70	68	57	54	53
20A	2	2	11	21	58	57	63	55	52
30A	2	2	14	22	47	52	60	48	43

Differential Mode / Symmetrical (Line to Line)

Current	Frequency – MHz								
Rating	.05	.07	.11	.15	1	2	10	20	30
3A	12	13	7	18	64	69	65	60	52
6A	12	12	8	27	61	61	59	56	54
10A	14	15	12	33	54	58	47	34	36
15A	16	16	13	34	61	52	36	36	23
20A	17	19	15	37	67	62	36	32	30
30A	17	18	14	40	62	53	30	28	26