

PREO Power Line EMI Filters

A Division of Eastek International Corporation

Series EB

Smallest Package
Lowest Cost



UL Recognized
CSA Certified
VDE Approved

Introduction

The EB series are general purpose EMI filters, which suppress high frequency conducted noise both into and out of the equipment through the power lines. The compact and low cost designs make the EB series a good choice for cleaning up noisy power lines. Available in a wide range of current ratings and termination styles.

Minimum Insertion Loss in dB

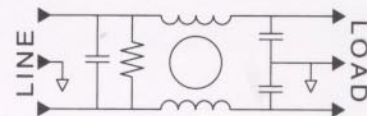
Common mode (line to ground) in 50 ohm system:

MODEL	Frequency in MHz								
	0.02	0.05	0.10	0.15	0.50	1.0	5.0	10	30
01EBM1	15	22	28	32	45	45	43	43	40
02EB11/33	7	15	21	24	35	43	45	45	40
03EB11/33/M1	4	10	15	20	30	38	48	48	44
06EB11/33/M1		2	5	9	20	28	42	50	47
10EB11/33/66		2	5	9	20	25	38	42	40
10EBM1			2	3	13	20	35	40	45
20EB11/66		3	7	10	20	28	35	38	40
30EB66		4	8	13	23	30	35	38	40

Differential mode (line to line) in 50 ohm system:

MODEL	Frequency in MHz							
	0.10	0.15	0.50	1.0	3.0	5.0	10	30
01EBM1	2	5	14	23	42	47	50	45
02EB11/33	2	5	13	16	35	45	50	45
03EB11/33/M1	2	5	12	14	24	38	44	42
06EB11/33/M1	2	5	12	14	18	33	42	42
10EB11/33/66	2	5	12	14	18	33	42	42
10EBM1	2	5	12	16	18	20	28	40
20EB11/66	2	5	12	15	18	30	40	40
30EB66	2	5	12	15	18	30	40	40

Schematic



Electrical ratings

Maximum operating voltage: 250 VAC

Operating frequency: 50/60 Hz

Hipot rating (one minute):

Line to Ground: 1500 VAC
Line to Line: 1450 VDC

Maximum leakage current (each line to ground):

@ 120 VAC / 60 Hz: 0.25 mA
@ 250 VAC / 50 Hz: 0.45 mA

Rated current at 40°C ambient temperature:

01EBM1 1 A
02EB11, 02EB33 2 A
03EB11, 03EB33, 03EBM1 3 A
06EB11, 06EB33, 06EBM1 6 A
10EB11, 10EB33, 10EB66, 10EBM1 10 A
20EB11, 20EB66 20 A
30EB66 30 A

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