

CORCOM Product Guide

corcom

Electronics

Cost Effective Compact RFI Filter IEC Connector Package

EEA, EEB Series



UL Recognized CSA Certified VDE Approved



EEA2/EEB2



EEA1/EEB1



EEAP/EEBP

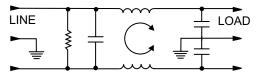
EEA Series

This is a new generation of compact RFI filters with IEC socket. A totally new design in both the internal structure and manufacturing process makes this series cost effective and compact. The EEA series supersedes the EF series by providing superior performance, particularly in the common mode at low frequencies. Mechanically, its slimmer size makes it compatible with all similar filters on the market.

EEB Series

This is a new generation of compact RFI filters with IEC socket. A totally new design in both the internal structure and manufacturing process makes this series cost effective and compact. Electrically, the EEB provides enhanced differential mode performance compared to both the EEA and EF series. Mechanically, its slimmer size makes it compatible with all similar filters on the market.

Electrical Schematic



Resistor location for reference only.

Specifications

Maximum leakage current, each line-to-ground

5	•	3	
@ 120 VAC 60 Hz:			.22 mA
@ 250 VAC 50 Hz:			.38 mA
Hipot rating (one minute)	:		
line-to-ground			2250 VDC
line-to-line			1450 VDC
Operating frequency:			50/60 Hz
Rated voltage (max.):			250 VAC
Minimum insertion loss i	n dB:		

EEA: Line-to-ground in 50 ohm circuit

	0								
Current	Frequency-MHz								
Rating	.01	.05	.1	.15	.5	1	5	10	30
1A	12	23	29	32	41	47	47	47	40
3A	-	10	15	19	30	36	48	50	47
6A	-	1	4	10	22	28	42	48	47
10A	-	1	3	5	14	20	32	38	47

Line-to-line in 50 ohm circuit

Current	Frequency-MHz						
Rating	.5	1	1.5	3	5	10	30
1A	1	9	19	32	42	45	40
3A	2	4	6	20	35	45	40
6A	2	4	6	6	24	40	40
10A	1	4	5	5	5	30	40

EEB: Line-to-ground in 50 ohm circuit

Current	Frequency-MHz								
Rating	.01	.05	.1	.15	.5	1	5	10	30
1A	12	23	29	32	41	47	47	47	40
3A	-	10	14	18	30	36	48	50	47
6A	-	1	4	10	22	28	42	48	47
10A	-	1	3	5	14	20	32	38	47

Line-to-line in 50 ohm circuit

Current			Fre	equer	ncy-MI	Ηz		
Rating	.01	.15	.5	1	3	5	10	30
1A	1	3	14	23	41	47	50	44
3A	1	2	11	14	25	38	44	40
6A	1	2	10	14	20	33	42	40
10A	1	2	10	16	19	19	39	40

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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. USA Cust. Svc.: 1-800-468-2023 CORCOM Prods: 1-847-680-7400 1-508-992-4495 Germany: 49-89-6089-0 www.cor.com www.tycoelectronics.com

Catalog 1654001 Revised 03-04



Electronics

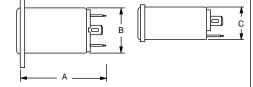
Cost Effective Compact RFI Filter IEC Connector Package (Continued)

EEA, EEB Series

Case Styles

EEA1/EEB1 (front or back mounting)

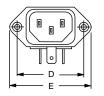


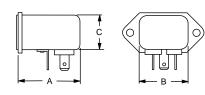


Typical dimensions:

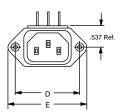
Terminals: .250 [6.35] (3) Holes: .07 [1.8] Dia.(2) Slot: .07 x .16 [1.8 x 3.8] (1)

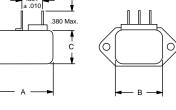
EEA2/EEB2 (back mount only)





EEAP/EEBP (back mount only)

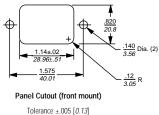


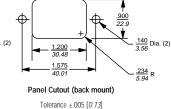


Typical dimensions:

Mounting holes: .132 [*3.35*] Dia. (2) with .260 Dia. x 90° countersunk for #4 Flathead Screw.

Recommended Panel Cutouts





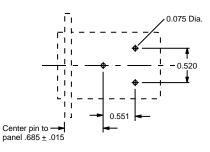
Case Dimensions	5
Δ	

	Α	В	С	D	Е
Part No.	(max)	(max)	(max)	± .010 ± .25	(max)
EEA1	2.15	1.12	0.81	1.575	1.98
	54.6	28.4	20.6	40.01	50.3
EEA2	1.54	1.12	0.81	1.575	1.98
	39.1	28.4	20.6	40.01	50.3
EEAP	1.54	1.12	0.81	1.575	1.98
/	39.1	28.4	20.6	40.01	50.3
EEB1	2.15	1.12	0.81	1.575	1.98
2201	54.6	28.4	20.6	40.01	50.3
EEB2	1.54	1.12	0.81	1.575	1.98
	39.1	28.4	20.6	40.01	50.3
FEBP	1.54	1.12	0.81	1.575	1.98
	39.1	28.4	20.6	40.01	50.3

Part Numbers

1EEA1 1FEA2	1EEB1 1EEB2
1EEAP	1EEBP
3EEA1	3EEB1
3EEA2 3FFAP	3EEB2 3FFBP
6FFA1	6FFB1
6EEA2	6EEB2
6EEAP	6EEBP
10EEA1	10EEB1
10EEA2 10FFAP	10EEB2 10EEBP
Line Cord No.	GA400
Insulating Boot No.	FA601
	1 7001

EEAP/EEBP Model PCB Layout



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