For UL544 Health Care Equipment

# EAH, EBH Series

Electronics



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UL Recognized CSA Certified VDE Approved

## **EAH Series**

This is a new generation of compact medical RFI filters with an IEC socket. A new design in internal structure and manufacturing process makes this series cost effective. This health care series supersedes the H series by providing superior differential mode performance while still maintaining a maximum leakage current of 2 micro amps.

### **EBH Series**

Also a compact medical RFI filter with IEC socket, the EBH series is a cost effective alternative to the H series. Electrically the EBH provides enhanced differential mode performance compared to both the EAH and the H series. These filters provide RFI common and differential mode performance while still allowing medical equipment to meet UL leakage current specifications for medical and dental equipment.

Additional information on UL544 specification is listed in Appendix C.

Note: When using the models with an IEC connector, remember that the leakage current of the companion line cord, GA400, is more significant than that of the filter - which may disqualify this line cord from use in patient care applications.

## **Electrical Schematic**



Resistor location for reference only



### **Specifications**

#### Maximum leakage current, each line-to-ground

Rated voltage (max.):	250 VAC
Operating frequency:	50/60 Hz
line-to-ground line-to-line	1500 VAC 1450 VDC
Hipot rating (one minute):	
@ 250 VAC 50 Hz:	5 μΑ
@ 120 VAC 60 Hz:	2 μΑ
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#### Minimum insertion loss in dB:

Line-to-ground in 50 ohm circuit

Current		Frequency-MHz								
Rating	.01	.05	.1	.15	.5	1	5	10	30	
EAH Mod	els									
1A	8	21	29	32	42	45	32	30	19	
ЗA	-	5	10	15	25	27	30	27	22	
6A	-	-	5	6	19	21	24	20	15	
10A	-	-	1	5	9	12	12	12	12	
EBH Mod	els									
1A	8	21	29	32	42	45	32	25	19	
ЗA	-	5	10	15	25	27	30	27	22	
6A	-	-	5	8	17	20	24	23	18	
10A	-	-	-	3	8	12	12	12	12	

#### Line-to-line in 50 ohm circuit

Current	Frequency-MHz					
Rating	1	1.	5	5໌	10	30
EAH Models						
1A	5	1;	3	28	32	25
ЗA	4		6	20	27	28
6A	2	4	5	19	25	27
10A	1		5	15	22	27
Current	Frequency-MHz					
Rating	.15	.5	1	5	10	30
EBH Models						
All Ratings	1	10	18	30	31	31

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Catalog 1654001 Dimens Revised 05-07 millimet specifie

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For UL544 Health Care Equipment (Continued)

# EAH, EBH Series

**Case Style** 

EAH1/EBH1









Typical dimensions: Terminals: .250 [*6.35*] (5) Slot: .07 x .16 [*1.8 x 4.1*]

Holes: .07 [*1.8*] Dia.(2) Mounting Holes: .132 [*3.35*] Dia. (2) with .236 Dia. x 90° countersunk for #4 Flathead Screw

# **Recommended Panel Cutouts**



Panel Cutout (Front mount) Tolerance ±.005 [*O*.13]



Tolerance ±.005 [0.13]

# **Case Dimensions**

Part No.	A (max)	B (max)	C (max)	D <u>±.010</u> ±.25	E (max)
EAH1	<b>2.15</b> 54.61	<b>1.12</b> 28 45	<b>.90</b> 22 86	<b>1.575</b> 40.01	<b>1.98</b> 50.29
EBH1	<b>2.15</b> 54.61	<b>1.12</b> 28.45	<b>.90</b> 22.86	<b>1.575</b> 40.01	<b>1.98</b> 50.29

## **Part Numbers**

1EAH1 3EAH1	1EBH1 3EBH1
6EAH1	6EBH1
10EAH1	10EBH1
Line Cord No.	GA400
Insulating Boot No.	FA601

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