RFI Power Line Filters for UL2601 Healthcare Equipment

H Series

Electronics

₹ Tvco



UL Recognized CSA Certified VDE Approved*

H Series

The H series filters were developed specifically for health care applications. These products are suitable for uses in both patient care equipment and non-patient care equipment. Their extremely low leakage current allows compliance with UL2601 and CSA 22.2 health care specifications.

See Appendix C for more information on UL544 health care applications.

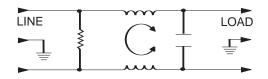
The H series features products with a variety of current ratings and case styles. Model 10EH4C additionally incorporates a separate ground circuit inductor to isolate equipment chassis from power line ground at RF frequencies.

For more information on UL2601, see Appendix C.

Note: When using the models with an IEC connector (e.g. 6EH4), 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.

*15EH4 - VDE rated at 10 amps, 250 VAC

Electrical Schematic



Resistor location for reference only.



Specifications

Maximum leakage current, each line-to-ground

@ 120 VAC 60 Hz:	2μΑ
@ 250 VAC 50 Hz:	5μΑ
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 in dB:	
Line-to-ground in 50 ohm circuit	

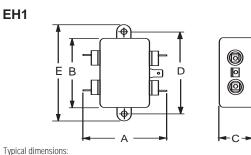
Current	Frequency-MHz					
Rating	.15	.5	1	5	10	30
3A	18	27	30	30	27	18
6A	9	16	20	26	23	18
10A	7	13	15	17	16	14
15A	5	9	11	12	11	9

Line Cord

Line Cord No. GA400:

SVT type 7^{1/2} foot, 3-conductor line cord to mate with all models except EH1. 50 micro amps maximum leakage @120 VAC, 60 Hz.

Case Style



Terminals: .250 [*6.35*] (5) Holes: .07 [*1.8*] Dia.(4) Slot: .07 x .16 [*1.8 x 4.1*] Mounting holes: .188 [*4.78*] Dia. (2)

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Catalog 1654001 Revised 05-07

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 Germany: 49-89-6089-0 www.corcom.com www.tycoelectronics.com

RFI Power Line Filters for UL2601 Healthcare Equipment (Continued)

Part No.

Case Dimensions

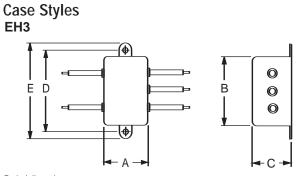
Α

(max)

В

(max)

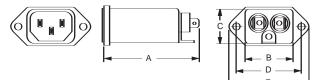
H Series



Typical dimensions:

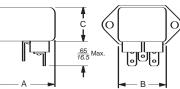
Wire leads: 4.0 [101.6] Min. 18 AWG Mounting holes: .188 [4.78] Dia. (2)

EH4 & EH4C



EH9

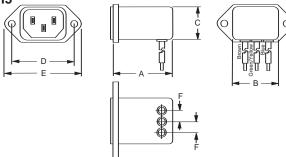




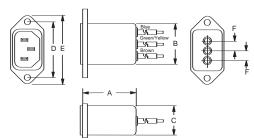
Typical dimensions:

Terminals: .250 [6.35] (3) Holes: .07 [1.8] Dia.(2) Slot: .07 x .16 [1.8 x 4.1] Mounting holes: .132 [3.35] Dia. (2)

EH5



EH8



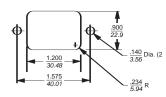
Typical dimensions: Wire leads: 4.0 [107.6] Min. 18 AWG Mounting holes: .132 [3.35] Dia. (2)

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Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

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USA Cust. Svc.: 1-800-468-2023 CORCOM Prods: 1-847-680-7400 49-89-6089-0 Germany:



Panel Cutout (back mount) Tolerance ±.005 [0.13]

Part No.	(max)	(max)	(max)	±.38	(max)	(ret)
3EH1	2.25	1.82	0.66	2.125	2.53	_
6EH1	57.2	46.1	16.7	53.98	64.2	
10EH1						
3EH3	.96	1.82	0.66	2.125	2.53	_
6EH3	24.40	46.1	16.7	53.98	64.2	
10EH3						
6EH4	2.20	1.19	0.81	1.575	1.98	_
	55.9	30.2	20.6	40.01	50.3	
6EH5	1.55	1.19	0.85	1.575	1.98	.295
	39.4	30.2	21.6	40.01	50.3	7.5
6EH8	1.56	1.19	0.81	1.575	1.98	.295
	39.7	30.2	20.6	40.01	50.3	7.5
6EH9	1.55	1.19	0.85	1.575	1.98	
	39.4	30.2	21.6	40.01	50.3	
10EH4	2.62	1.19	0.81	1.575	1.98	_
	66.5	30.2	20.6	40.01	50.3	
10EH4C	2.62	1.19	0.81	1.575	1.98	_
	66.5	30.2	20.6	40.01	50.3	
15EH4	2.62	1.19	0.81	1.575	1.98	_
	66.5	30.2	20.6	40.01	50.3	

С

(max)

D

± .015

Ε

(max)

F

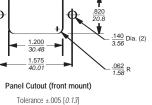
(ref)

Part Numbers

3EH1 3EH3 6EH1 6EH3	6EH8 6EH9 10EH1 10EH3			
6EH4	10EH4			
6EH5	10EH4C			
	15EH4*			
Line Cord No.	GA400			
Insulating Boot No. (EH4, E	EH4C) FA601			

*UL, CSA - 15A; VDE - 10A

Recommended Panel Cutouts



Note 2: EH5 and EH9 allow back mounting only.

Note 1: EH4, EH4C and EH8 allow front or back mounting.

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