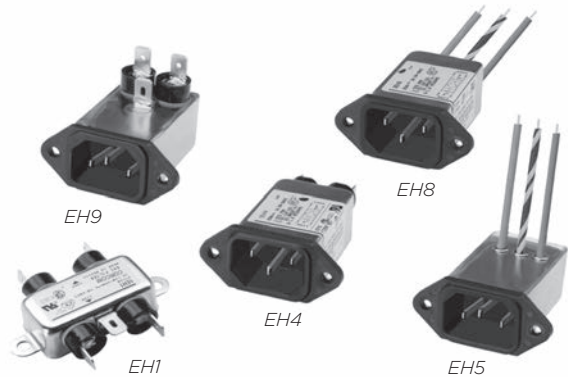


Power Inlet Line Filter for Medical Equipment

H Series



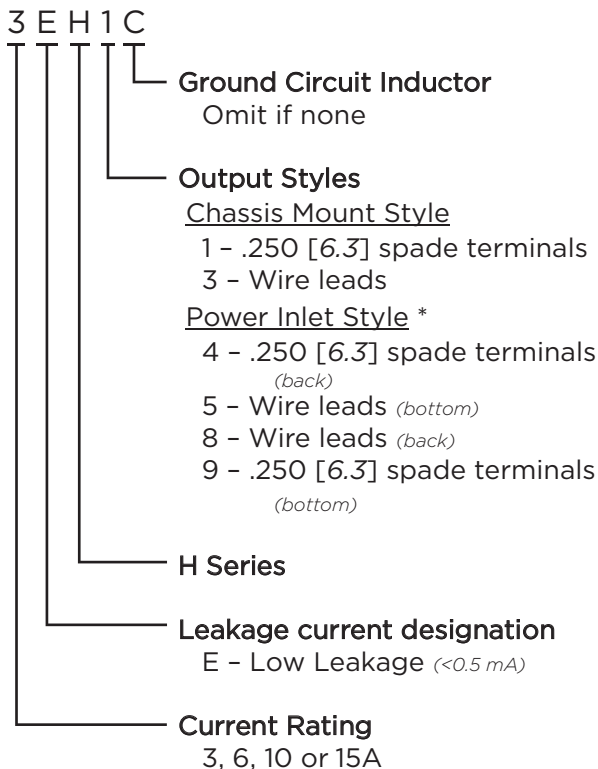
UL Recognized
CSA Certified
VDE Approved*



H Series

- Minimal leakage current suitable for medical equipment
- Two element circuit provides basic EMI attenuation above 1 MHz
- Available with an internal ground circuit inductor (C suffix versions) to isolate equipment chassis from power line ground at radio frequencies
- Flanged mounting the same as the EC, ED and EF Series
- Capacitive output (see EAH, EBH and EJH Series for capacitive input)

Ordering Information



*IEC 60320-1 C14 inlet mates with C13 connector

Specifications

Maximum leakage current each Line to Ground:

- @ 120 VAC 60 Hz: 2 µA
- @ 250 VAC 50 Hz: 5 µA

Hipot rating (one minute):

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

Rated Voltage (max.):

250 VAC

Operating Frequency:

50/60 Hz

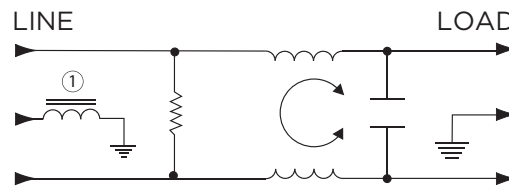
Rated Current:

3 to 15A*

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

3EH1	6EH8
3EH3	6EH9
6EH1	10EH1
6EH3	10EH3
6EH4	10EH4
6EH5	15EH4
Ground Circuit Inductor Versions	
10EH4C	

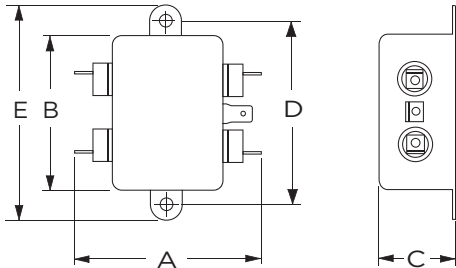
*15A versions are tested by Underwriters Laboratories to US and Canadian requirements and are VDE approved at 10A, 250VAC

Power Inlet Line Filter for Medical Equipment *(continued)*

H Series

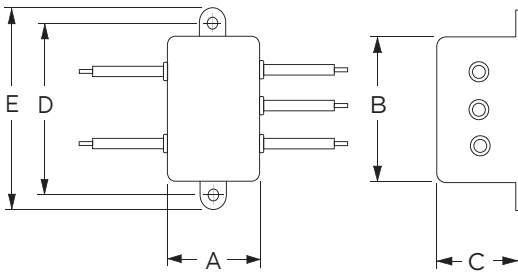
Case Styles

H1 (Chassis Mount)



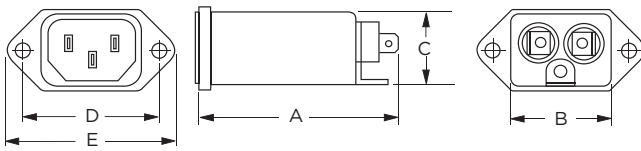
Typical Dimensions:
 Mounting Holes: .188 [4.78] Dia.
 Line / Load Terminals (4): .250 [6.3] with .07 [1.8] Dia. hole
 Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot

H3 (Chassis Mount)



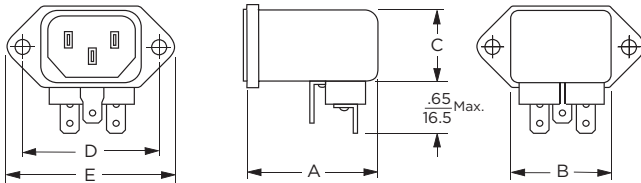
Typical Dimensions:
 Mounting Holes: .188 [4.78] Dia.
 Wire Leads(5): 4.0 [101.6] Min., 18AWG, UL1015

H4 & H4C



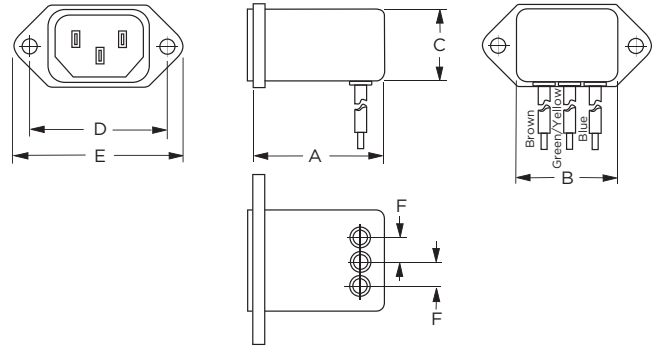
Typical Dimensions:
 Line Inlet (1): IEC 60320-1 C14
 Load Terminals (2): .250 [6.3] with .07 [1.8] Dia. hole
 Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot

H9



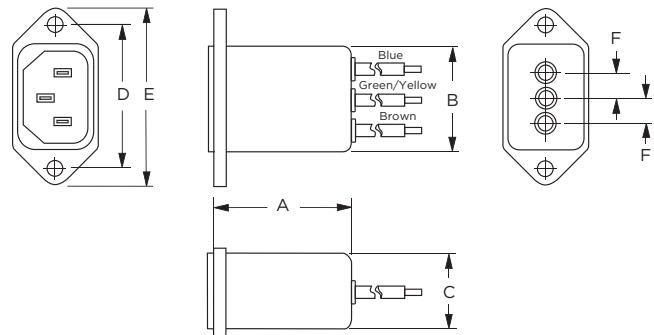
Typical Dimensions:
 Line Inlet (1): IEC 60320-1 C14
 Load Terminals (2): .250 [6.3] with .07 [1.8] Dia. hole
 Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot

H5



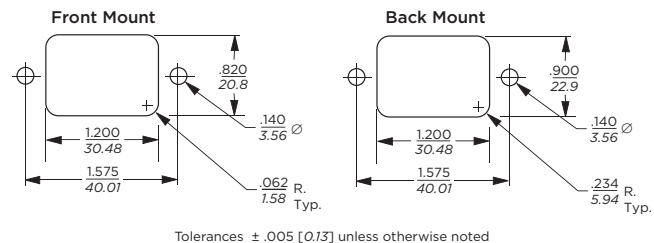
Typical Dimensions:
 Line Inlet (1): IEC 60320-1 C14
 Wire Leads: 4.0 [101.6] Min., 18AWG, UL1015

H8



Typical Dimensions:
 Line Inlet (1): IEC 60320-1 C14
 Wire Leads: 4.0 [101.6] Min., 18AWG, UL1015

Recommended Panel Cutouts



Note 1: H4, H4C and H8 allow for front or back mounting
 Note 2: H5 and H9 allow for back mounting only

Power Inlet Line Filter for Medical Equipment *(continued)*

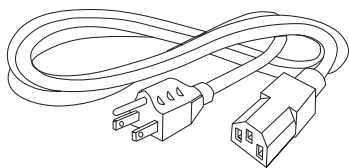
H Series

Case Dimensions

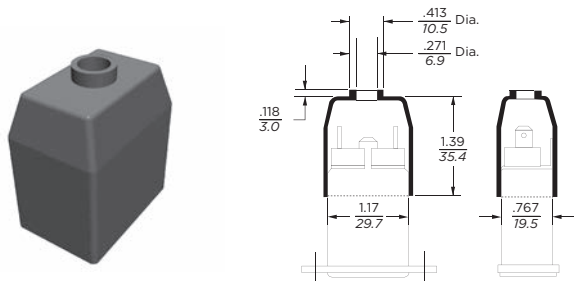
Part No.	A (max.)	B (max.)	C (max.)	D $\pm .015$ $\pm .38$	E (max.)	F (ref.)
H1	2.25 <i>57.2</i>	1.82 <i>46.1</i>	0.66 <i>16.7</i>	2.125 <i>53.98</i>	2.53 <i>64.2</i>	-
H3	.96 <i>24.40</i>	1.82 <i>46.1</i>	0.66 <i>16.7</i>	2.125 <i>53.98</i>	2.53 <i>64.2</i>	-
6EH4	2.20 <i>55.9</i>	1.19 <i>30.2</i>	0.81 <i>20.6</i>	1.575 <i>40.01</i>	1.98 <i>50.3</i>	-
10EH4, 10EH4C	2.62 <i>66.5</i>	1.19 <i>30.2</i>	0.81 <i>20.6</i>	1.575 <i>40.01</i>	1.98 <i>50.3</i>	-
15EH4	2.62 <i>66.5</i>	1.19 <i>30.2</i>	0.81 <i>20.6</i>	1.575 <i>40.01</i>	1.98 <i>50.3</i>	-
H5	1.55 <i>39.4</i>	1.19 <i>30.2</i>	0.85 <i>21.6</i>	1.575 <i>40.01</i>	1.98 <i>50.3</i>	.295 <i>7.5</i>
H8	1.56 <i>39.7</i>	1.19 <i>30.2</i>	0.81 <i>20.6</i>	1.575 <i>40.01</i>	1.98 <i>50.3</i>	.295 <i>7.5</i>
H9	1.55 <i>39.4</i>	1.19 <i>30.2</i>	0.85 <i>21.6</i>	1.575 <i>40.01</i>	1.98 <i>50.3</i>	-

Accessories

GA400: NEMA 5-15P to IEC 60320-1 C-13 line cord



FA601: Insulating Shroud

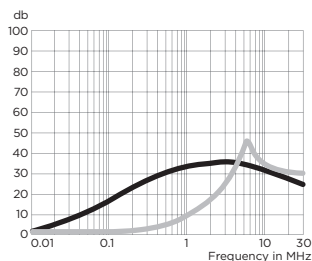


Performance Data

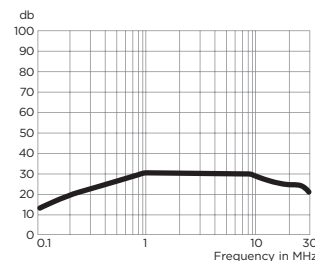
Typical Insertion Loss

Measured in closed 50 Ohm system

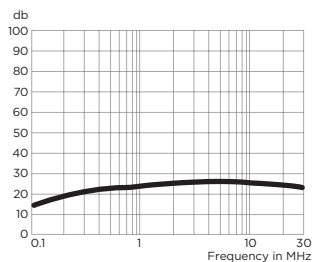
3EH



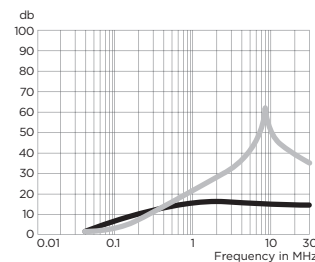
6EH



10EH



15EH



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

Minimum Insertion Loss

Measured in closed 50 Ohm system

Common Mode / Asymmetrical (Line to Ground)

Current Rating	Frequency – MHz					
	.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

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[6EH4](#) [6EH8](#) [10EH4](#) [10EH1](#) [10EH3](#) [6EH3](#) [6EH5](#) [6EH1](#) [6EH9](#) [3EH3](#) [3EH1](#) [10EH4C](#) [15EH4](#) [10EH3 M0](#)