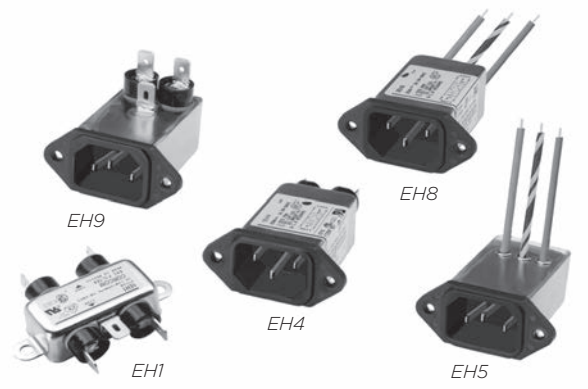
# H Series

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

3 E H 1 C

**Ground Circuit Inductor**
Omit if none

**Output Styles**
Chassis Mount Style
1 – .250 [*6.3*] spade terminals
3 – Wire leads
Power Inlet Style *
4 – .250 [*6.3*] spade terminals *(back)*
5 – Wire leads *(bottom)*
8 – Wire leads *(back)*
9 – .250 [*6.3*] spade terminals *(bottom)*

**H Series**

**Leakage current designation**
E – Low Leakage *(<0.5 mA)*

**Current Rating**
3, 6, 10 or 15A

*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

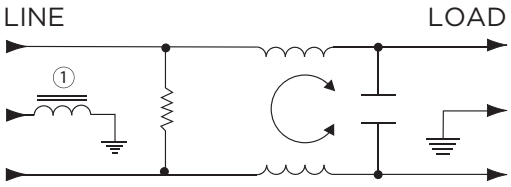
**Rated Voltage (max.):** 250 VAC

**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: $I_o = I_r \sqrt{(85-Ta)/45}$

## Electrical Schematic




## Available Part Numbers

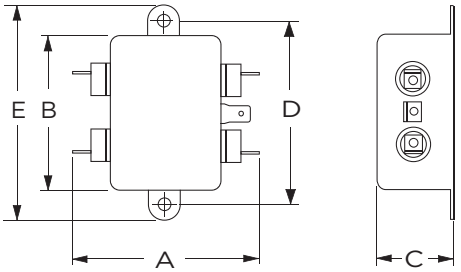
| | |
|---|---|
| 3EH1 | 6EH8 |
| 3EH3 | 6EH9 |
| 6EH1 | 10EH1 |
| 6EH3 | 10EH3 |
| 6EH4 | 10EH4 |
| 6EH5 | 15EH4 |
| Ground Circuit Inductor Versions | |
| 10EH4C | |

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

# H Series

## Case Styles

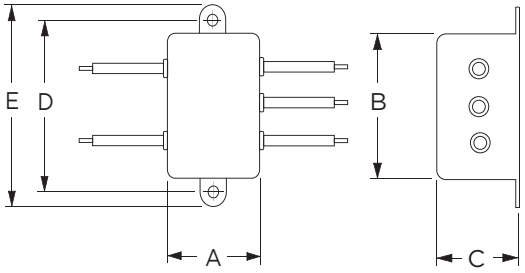
### H1 *(Chassis Mount)*




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 |

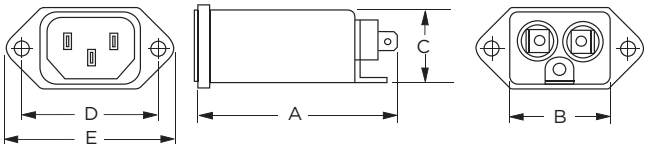
### H3 *(Chassis Mount)*




Typical Dimensions:

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

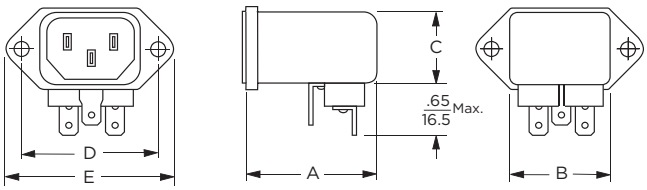
### H4 & H4C




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 |

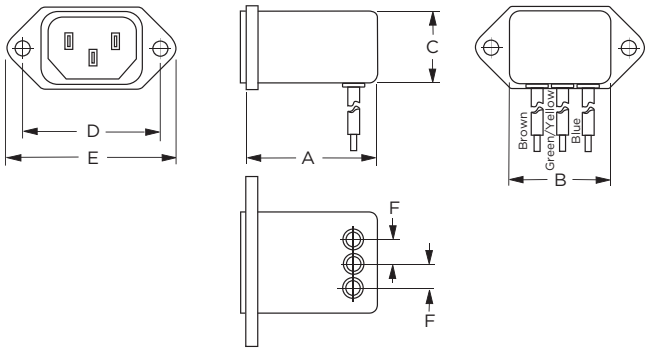
### H9




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 |

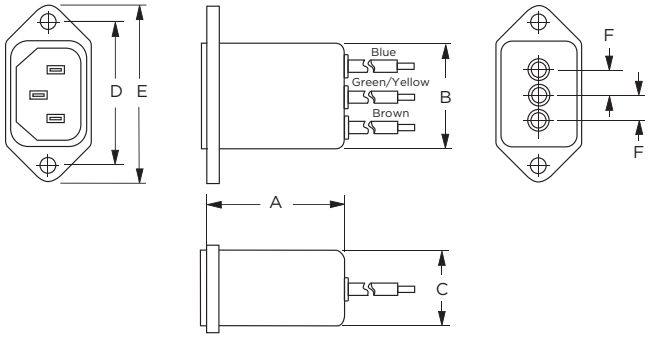
### H5




Typical Dimensions:

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

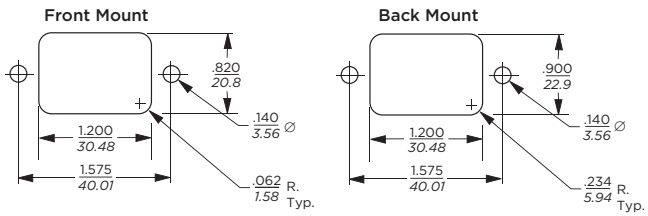
### H8




Typical Dimensions:

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

## Recommended Panel Cutouts




Tolerances ± .005 [*0.13*] unless otherwise noted

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

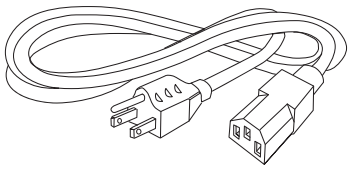
# H Series

## Case Dimensions

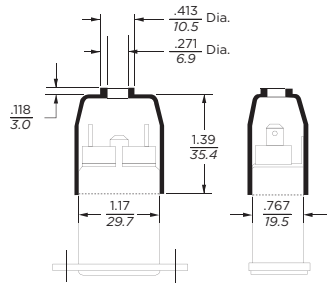
| Part No. | A (max.) | B (max.) | C (max.) | D ± .015 / ± .38 | E (max.) | F (ref.) |
|---|---|---|---|---|---|---|
| H1 | **2.25** *57.2* | **1.82** *46.1* | **0.66** *16.7* | **2.125** *53.98* | **2.53** *64.2* | - |
| H3 | **.96** *24.40* | **1.82** *46.1* | **0.66** *16.7* | **2.125** *53.98* |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

## Accessories

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



**FA601**: Insulating Shroud

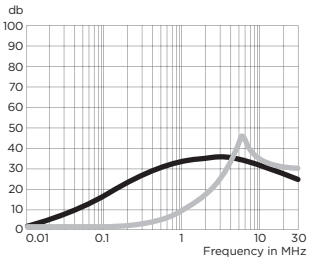



## Performance Data

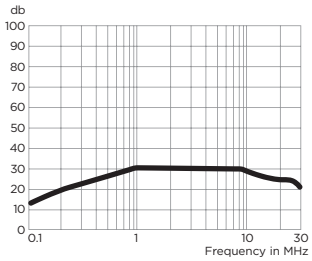
### Typical Insertion Loss

Measured in closed 50 Ohm system

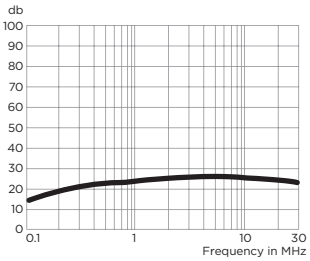
**3EH**



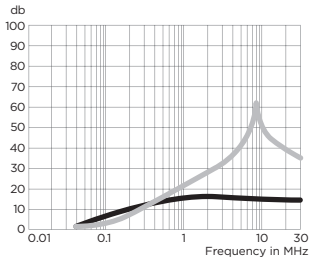

**6EH**




**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 |





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.

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