Corcom Product Guide

## HZ Series



UL Recognized
CSA Certified
VDE Approved


## HZ Series

- Designed to provide good attenuation to RFI noise in the frequency range from 10 kHz to 30 MHz
- Size and cost-effective
- Low leakage current
- New versions up to 30A


## Ordering Information

## Specifications

Maximum leakage current each Line to Ground:

```
@ 120 VAC 60 Hz:
2\muA
@250 VAC 50 Hz:
5\muA
```

Hipot rating (one minute):
Line to Ground:
2250 VDC
Line to Line: 1450 VDC

Rated Voltage (max): 250 VAC
Operating Frequency: $50 / 60 \mathrm{~Hz}$

Rated Current:

## Operating Ambient Temperature Range

(at rated current $I_{r}$ ):
$-10^{\circ} \mathrm{C}$ to $+40^{\circ} \mathrm{C}$
In an ambient temperature ( $\mathrm{T}_{\mathrm{a}}$ ) higher than $+40^{\circ} \mathrm{C}$ the maximum operating current $\left(I_{0}\right)$ is calculated as follows: $I_{O}=I_{r} \sqrt{(85-T a) / 45}$

## Case Styles

3EHZ1


Typical Dimensions:

$$
\begin{array}{ll}
\text { Line/Load Terminals (4): } & .250[6.3] \text { with } .07[1.8] \text { Dia. hole } \\
\text { Ground Terminal (1): } & .250[6.3] \text { with } .07 \times .16[1.8 \times 3.8] \text { slot } \\
\text { Mounting Holes (2): } & .188[4.78] \text { Dia. }
\end{array}
$$

Available Part Numbers

| $3 E H Z 1$ | $4 \mathrm{EHZ1}$ |
| :---: | :---: |
| $6 \mathrm{EHZ1}$ | $10 \mathrm{EHZ1}$ |
| $15 \mathrm{EHZ1}$ | $20 E H Z 1$ |
| $30 \mathrm{EHZ6}$ |  |

## Electrical Schematic



## HZ Series

Case Styles (continued)

## 4EHZ1



Typical Dimensions:

$$
\begin{array}{ll}
\text { Line/Load Terminals (4): } & .250[6.3] \text { with } .07 \text { [1.8] Dia. hole } \\
\text { Ground Terminal (1): } & .250[6.3] \text { with } .07 \times .16[1.8 \times 3.8] \text { slot } \\
\text { Mounting Holes (2): } & .188[4.78] \text { Dia. }
\end{array}
$$

## 6EHZ1



Typical Dimensions:
 Ground Terminal (1): Mounting Holes (2):
. 250 [6.3] with .07 [1.8] Dia. hole .250 [6.3] with $.07 \times .16$ [ $1.8 \times 3.8$ ] slot 188 [4.78] Dia.

10, 15 \& 20EHZ1


Typical Dimensions:

$$
\begin{array}{ll}
\text { Line/Load Terminals (4): } & .250[6.3] \text { with } .07 \text { [1.8] Dia. hole } \\
\text { Ground Terminal (1): } & .250[6.3] \text { with } .07 \times .16[1.8 \times 3.8] \text { slot } \\
\text { Mounting Holes (2): } & .188[4.78] \text { Dia. }
\end{array}
$$

30EHZ6


Typical Dimensions
Terminals (5): $\quad 8-32$, Torque 18 Ibf-in. [2.03 N-m] max. $\pm 2$ [.22] Mounting Holes (4): 188 [4.75] Dia.

## Case Dimensions

| Part No. | A <br> $(\max )$ | B <br> $(\max )$ | C <br> $(\max )$ | D <br> $\pm .015$ <br> $\pm .38$ | E <br> $(\max )$ |
| :--- | :---: | :---: | :---: | :---: | :---: |
| 3EHZ1 | 3.54 | 2.08 | 1.31 | 2.938 | 3.35 |
|  | 89.91 | 52.8 | 33.3 | 74.63 | 85.1 |
| 4EHZ1 | 3.07 | 1.82 | 1.16 | 2.375 | 2.78 |
| 6EHZ1 | 37.98 | 46.23 | 29.46 | 60.33 | 70.61 |
| 10EHZ1 | 77.98 | 46.23 | 32.51 | 60.33 | 70.61 |
| 15EHZ1 | 3.54 | 2.047 | 1.805 | 2.938 | 3.54 |
| 2OEHZ1 | 89.92 | 51.99 | 45.85 | 74.63 | 89.92 |
| 3OEHZ6 | 4.92 | 2.07 | 1.53 | 3.947 | 4.33 |

Corcom Product Guide

## High Performance Power Line Filter for Medical Applications (continued)

## Performance Data

## Typical Insertion Loss

Measured in closed 50 Ohm system


## 30EHZ6


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

## Minimum Insertion Loss

Common Mode / Asymmetrical (Line to Ground) Differential Mode / Symmetrical (Line to Line)

|  | Frequency $-\mathbf{M H z}$ |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part No. | .01 | .05 | . $\mathbf{1}$ | $\mathbf{. 1 5}$ | $\mathbf{. 5}$ | $\mathbf{1}$ | $\mathbf{5}$ | $\mathbf{1 0}$ | $\mathbf{3 0}$ |
| $3 \mathrm{EHZ1}$ | 10 | 24 | 30 | 34 | 34 | 35 | 15 | 10 | 5 |
| $4 \mathrm{EHZ1}$ | 12 | 24 | 31 | 35 | 47 | 47 | 30 | 25 | 18 |
| $6 \mathrm{EHZ1}$ | 9 | 21 | 27 | 30 | 36 | 34 | 27 | 22 | 16 |
| 10EHZ1 | 7 | 21 | 25 | 31 | 43 | 40 | 26 | 21 | 14 |
| 15EHZ1 | 7 | 27 | 27 | 30 | 43 | 37 | 24 | 17 | 12 |
| 20EHZ1 | 5 | 19 | 24 | 28 | 31 | 29 | 14 | 9 | 4 |
| $30 \mathrm{EHZ6}$ | - | 5 | 11 | 14 | 27 | 30 | 20 | 17 | 14 |


| Part No. | Frequency - MHz |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | . 01 | . 05 | . 1 | . 15 | . 5 | 1 | 5 | 10 | 30 |
| 3EHZ1 | 10 | 25 | 30 | 54 | 70 | 70 | 65 | 55 | 55 |
| 4EHZ1 | - | - | 14 | 32 | 72 | 83 | 68 | 63 | 30 |
| 6EHZ1 | - | - | 7 | 17 | 59 | 80 | 67 | 60 | 52 |
| 10EHZ1 | - | - | 4 | 21 | 63 | 80 | 80 | 74 | 36 |
| 15EHZ1 | - | - | 7 | 15 | 51 | 77 | 80 | 74 | 48 |
| 20EHZ1 | - | - | 11 | 9 | 54 | 77 | 74 | 69 | 47 |
| 30EHZ6 | - | - | 13 | 14 | 47 | 67 | 76 | 70 | 58 |

