

High Performance Power Line Filter for Medical Applications

HZ Series



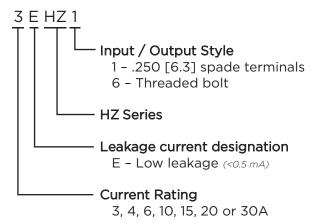
UL Recognized CSA Certified VDE Approved



HZ Series

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

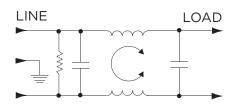
Ordering Information



Available Part Numbers

3EHZ1	4EHZ1
6EHZ1	10EHZ1
15EHZ1	20EHZ1
30EHZ6	

Electrical Schematic

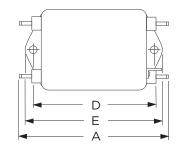


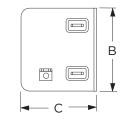
Specifications

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 30A						
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: $I_o = I_r \sqrt{(85-Ta)/45}$

Case Styles 3EHZ1





Typical Dimensions: Line/Load Terminals (4):

Ground Terminal (1): Mounting Holes (2):

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.

43

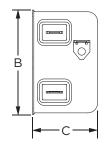


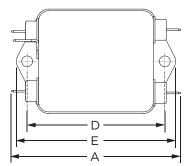
High Performance Power Line Filter for Medical Applications (continued)

HZ Series

Case Styles (continued)

4EHZ1

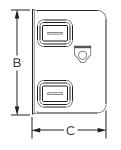


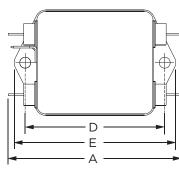


Typical Dimensions:

- Line/Load Terminals (4): Ground Terminal (1): Mounting Holes (2):
- .250 [6.3] with .07 [1.8] Dia. hole .250 [6.3] with .07 x .16 [1.8 x 3.8] slot .188 [4.78] Dia.

6EHZ1





.250 [6.3] with .07 [1.8] Dia. hole

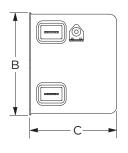
.188 [4.78] Dia.

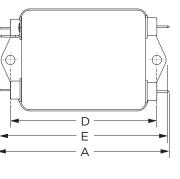
.250 [6.3] with .07 x .16 [1.8 x 3.8] slot

Typical Dimensions:

Line/Load Terminals (4): Ground Terminal (1): Mounting Holes (2):

10, 15 & 20EHZ1

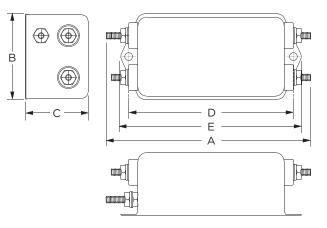




Typical Dimensions: Line/Load Terminals (4): Ground Terminal (1): Mounting Holes (2):

.250 [6.3] with .07 [*1.8*] Dia. hole .250 [6.3] with .07 x .16 [*1.8 x 3.8*] slot .188 [*4.78*] Dia.

30EHZ6



Typical Dimensions:

Terminals (5): Mounting Holes (4): 8-32, Torque 18 lbf-in. [2.03 N-m] max. ± 2 [.22] .188 [4.75] Dia.

Case Dimensions

Part No.	A (max)	B (max)	C (max)	D <u>± .015</u> ± .38	E (max)
3EHZ1	3.54	2.08	1.31	2.938	3.35
SEHZI	89.91	52.8	33.3	74.63	85.1
	3.07	1.82	1.16	2.375	2.78
4EHZ1	77.98	46.23	29.46	60.33	70.61
6FH71	3.07	1.82	1.28	2.375	2.78
	77.98	46.23	32.51	60.33	70.61
10EHZ1 15EHZ1	3.54 89.92	2.047 51.99	1.805 45.85	2.938 74.63	3.54 89.92
20EHZ1	09.92	51.99	40.00	74.03	09.92
30EHZ6	4.92 124.97	2.07 52.58	1.53 38.86	3.947 100.25	4.33 109.98

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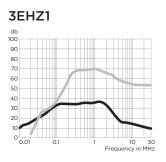


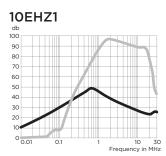
High Performance Power Line Filter for Medical Applications (continued)

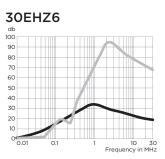
Performance Data

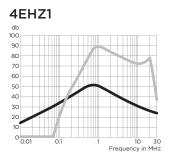
Typical Insertion Loss

Measured in closed 50 Ohm system









15EHZ1

100

90

80

70

60

50

40

30

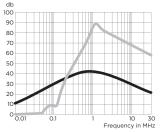
20

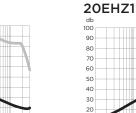
10

0 0.01

0.1







10

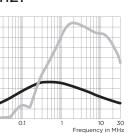
Frequ

30

in MHz

10

0 0.01



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

Minimum Insertion Loss

Common Mode / Asymmetrical (Line to Ground)

			F	requ	ency	– MI	Ηz		
Part No.	.01	.05	.1	.15	.5	1	5	10	30
3EHZ1	10	24	30	34	34	35	15	10	5
4EHZ1	12	24	31	35	47	47	30	25	18
6EHZ1	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
30EHZ6	-	5	11	14	27	30	20	17	14

Differential Mode /	' Symmetrical (Lir	ne to Line)
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	Frequency – MHz								
Part No.	.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

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45