

High Performance RFI Power Line Filters for Medical Equipment

HT Series



UL Recognized
CSA Certified
VDE Approved



HT Series

- Designed to provide significant attenuation of RFI noise in the frequency range from 10kHz to 30MHz
- Size and cost-effective

Specifications

Maximum leakage current each Line to Ground:
 @ 120 VAC 60 Hz: 2 μ A
 @ 250 VAC 50 Hz: 5 μ A

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

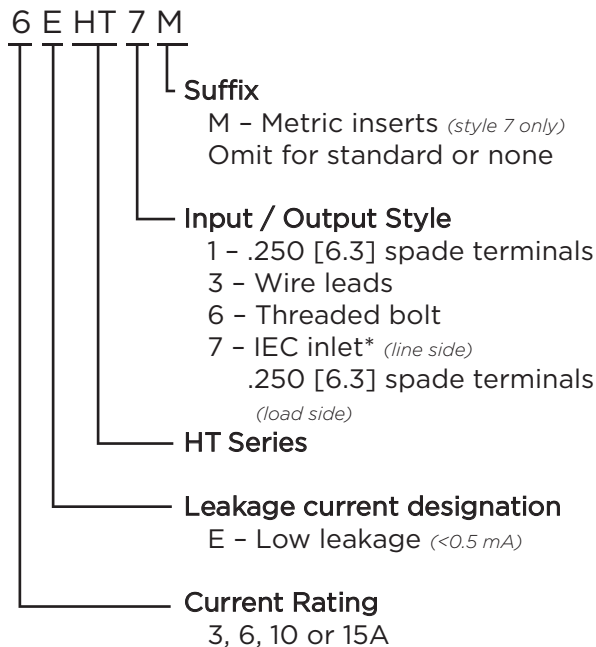
Rated Voltage (max): 250 VAC

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

Ordering Information

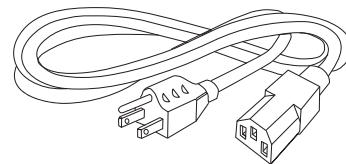


Available Part Numbers

3EHT1	6EHT7
3EHT3	6EHT7M
3EHT7	10EHT1
3EHT7M	10EHT3
6EHT1	15EHT1
6EHT3	15EHT6

Accessories

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



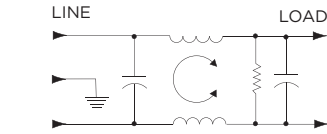
*IEC 60320-1 C14 inlet mates with C13 connector

High Performance Power Line Filters for Medical Equipment *(continued)*

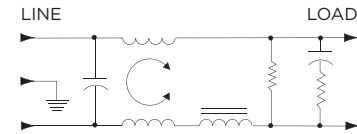
HT Series

Electrical Schematics

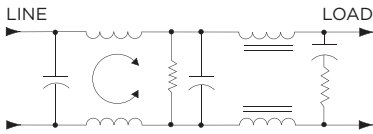
3 & 6EHT



10EHT

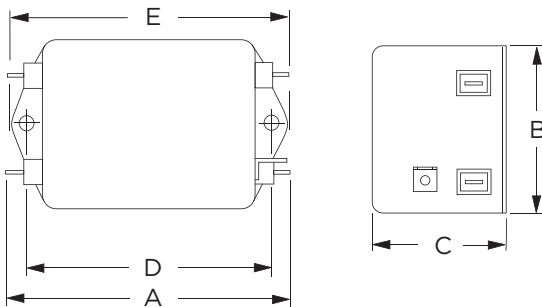


15EHT



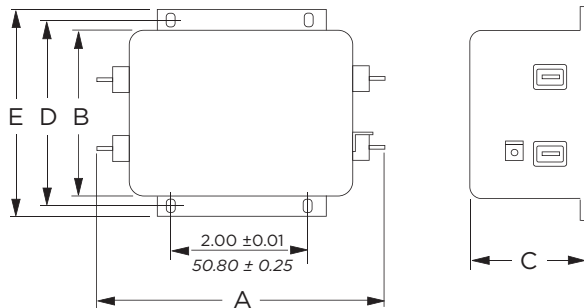
Case Styles

HT1 (3, 6, 10A)



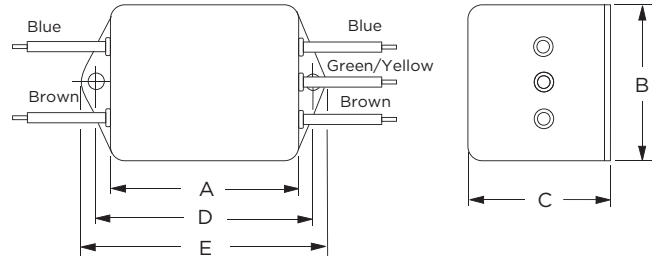
Typical Dimensions:
 Line/Load Terminals (4): .250 [6.3] with .07 [1.8] Dia. hole
 Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot
 Mounting Holes (2): .188 [4.78] Dia.

HT1 (15A)



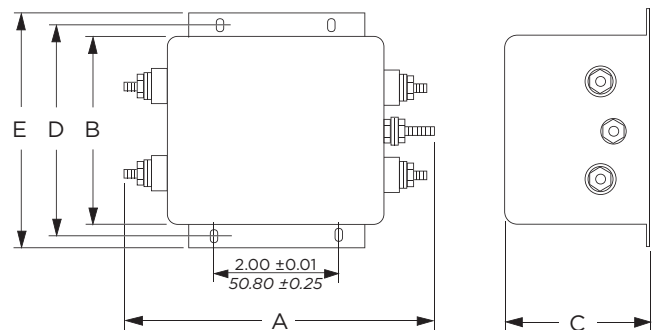
Typical Dimensions:
 Line/Load Terminals (4): .250 [6.3] with .07 [1.8] Dia. hole
 Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot
 Mounting Slots (4): .203 x .156 [5.16 x 3.96] Dia.

HT3



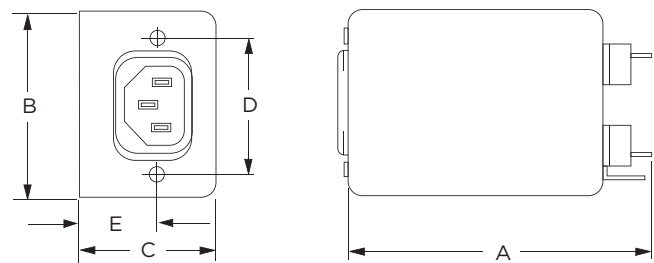
Typical Dimensions:
 6A Wire Leads (5): 4.0 [101.6] Min., 18AWG
 10A Wire Leads (5): 6.0 [152.4] Min., 18AWG
 Mounting Holes (2): .188 [4.78] Dia.

HT6



Typical Dimensions:
 Terminals (5): 8-32, Torque 18 lbf-in. [2.03 N-m] max. ± 2 [22]
 Mounting Slots (4): .203 x .156 [5.16 x 3.96] Dia.

HT7 & HT7M



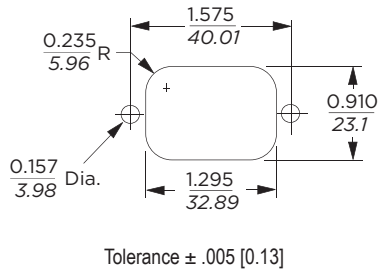
Typical Dimensions:
 Load Terminals (2): .250 [6.3] with .07 [1.8] Dia. hole
 Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot
 Line Inlet (1): IEC 60320-1 C14
 HT7 Tapped Inserts (2): 6-32 x 1/4
 HT7M Tapped Inserts (2): M3 x .5

1
RFI Power Line Filters

High Performance Power Line Filters for Medical Equipment *(continued)*

HT Series

Recommended Panel Cutout



Case Dimensions

Part No.	A (max)	B (max)	C (max)	D $\pm .015$ $\pm .38$	E (max)
3EHT1,	3.56	2.15	1.81	2.938	3.38
6EHT1	90.4	54.6	46.0	74.63	85.9
3EHT3,	2.55	2.15	1.81	2.938	3.38
6EHT3	64.8	54.6	46.0	74.63	85.9
3EHT7 / 7M,	3.52	2.25	1.78	1.575	0.63*
6EHT7 / 7M	89.4	57.2	45.2	40.01	16.0*
10EHT1	4.69	2.27	1.8	4.063	4.47
	119.1	57.7	45.7	103.2	113.5
10EHT3	3.69	2.27	1.8	4.063	4.47
	93.7	57.7	45.7	103.2	113.5
15EHT1	5.45	3.12	2.18	3.5	3.96
	138.4	79.2	55.4	88.9	100.6
15EHT6	5.95	3.12	2.18	3.5	3.96
	151.1	79.2	55.4	88.9	100.6

*±0.02 [0.5]

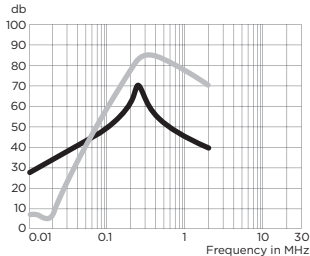
Performance Data

Typical Insertion Loss

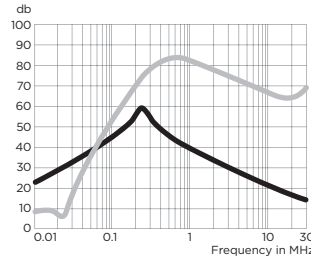
Measured in closed 50 Ohm system

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

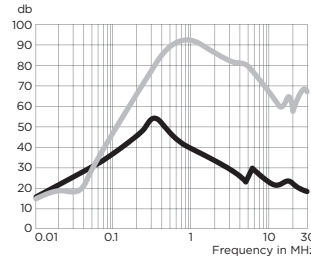
3EHT



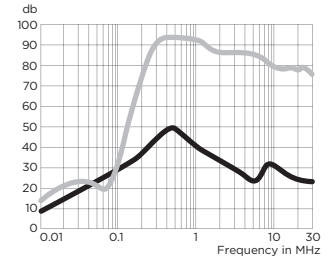
6EHT



10EHT



15EHT



Minimum Insertion Loss

Common Mode / Asymmetrical (Line to Ground)

Differential Mode / Symmetrical (Line to Line)

Current Rating	Frequency – MHz											
	.02	.02	.05	.08	.15	.5	1	2	5	10	20	30
3A	22	32	36	-	49	46	40	30	22	12	12	12
6A	16	23	32	41	46	41	33	26	15	9	6	2
10A	9	15	24	30	36	42	34	22	11	12	8	8
15A	4	9	18	22	27	41	34	22	12	12	5	2

Current Rating	Frequency – MHz											
	.02	.02	.05	.08	.15	.5	1	2	5	10	20	30
3A	3	1	30	-	61	70	65	65	48	40	32	32
6A	4	1	14	45	51	70	70	65	55	47	37	37
10A	7	8	17	32	52	70	70	70	65	55	40	35
15A	12	16	15	10	51	70	70	70	70	70	65	55