

High Performance RFI Power Line Filters for Medical Equipment

# HT Series



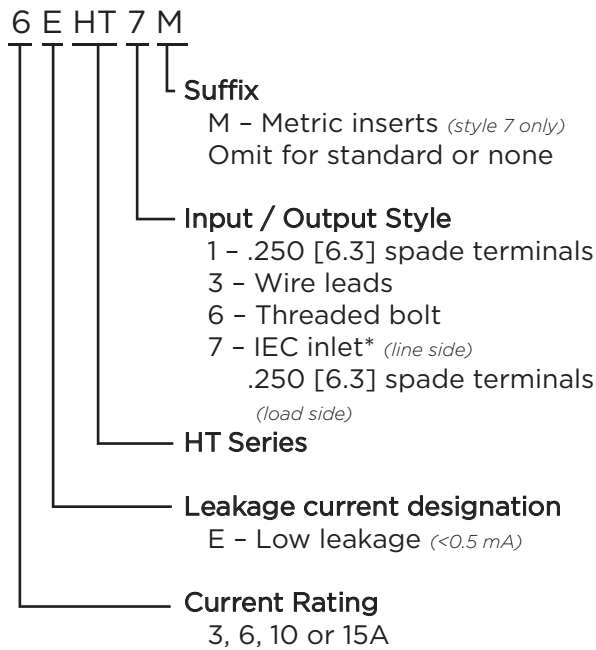
UL Recognized  
CSA Certified  
VDE Approved



## HT Series

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

## Ordering Information



\*IEC 60320-1 C14 inlet mates with C13 connector

## Specifications

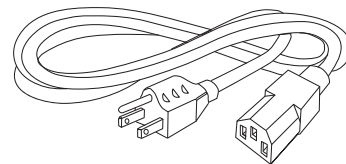
- Maximum leakage current each Line to Ground:**  
 @ 120 VAC 60 Hz: 2  $\mu$ A  
 @ 250 VAC 50 Hz: 5  $\mu$ A
- Hipot rating (one minute):**  
 Line to Ground: 2250 VDC  
 Line to Line: 1450 VDC
- Rated Voltage (max):** 250 VAC
- Operating Frequency:** 50/60 Hz
- Rated Current:** 3 to 15A
- Operating 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:  $I_o = I_r \sqrt{(85-T_a)/45}$

## 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

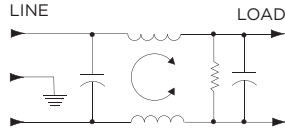


High Performance Power Line Filters for Medical Equipment *(continued)*

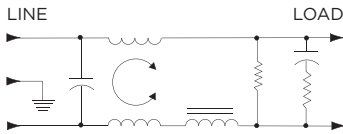
# HT Series

## Electrical Schematics

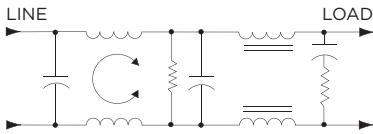
### 3 & 6EHT



### 10EHT

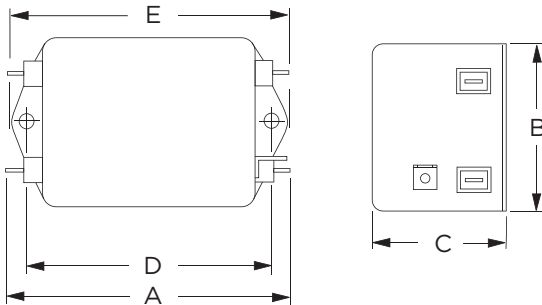


### 15EHT



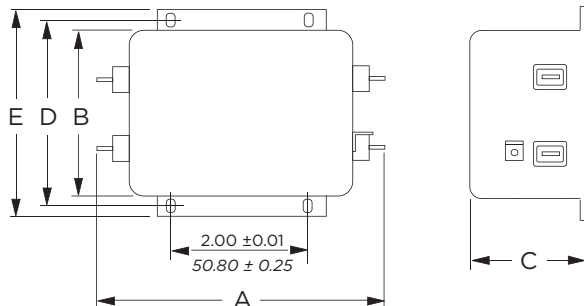
## Case Styles

### HT1 (3, 6, 10A)



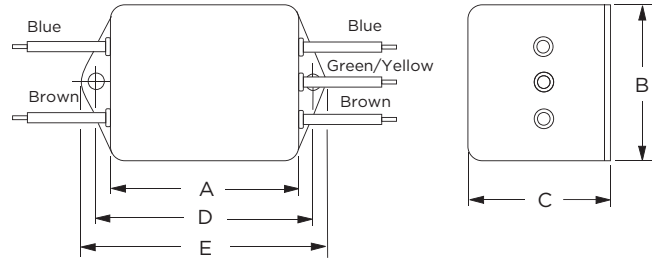
Typical Dimensions:  
 Line/Load Terminals (4): .250 [6.3] with .07 [1.8] Dia. hole  
 Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot  
 Mounting Holes (2): .188 [4.78] Dia.

### HT1 (15A)



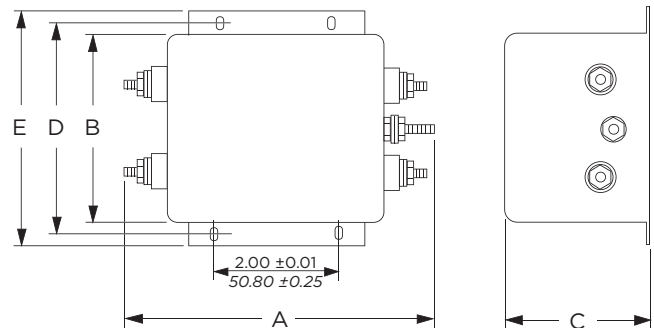
Typical Dimensions:  
 Line/Load Terminals (4): .250 [6.3] with .07 [1.8] Dia. hole  
 Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot  
 Mounting Slots (4): .203 x .156 [5.16 x 3.96] Dia.

### HT3



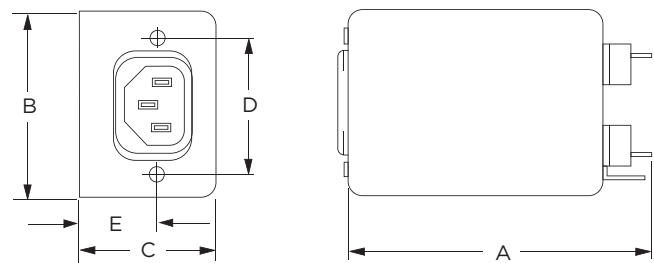
Typical Dimensions:  
 6A Wire Leads (5): 4.0 [101.6] Min., 18AWG  
 10A Wire Leads (5): 6.0 [152.4] Min., 18AWG  
 Mounting Holes (2): .188 [4.78] Dia.

### 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



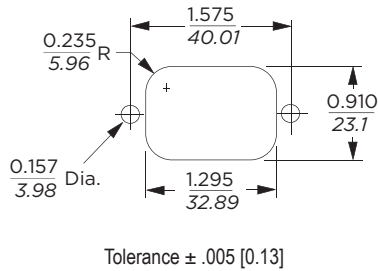
Typical Dimensions:  
 Load Terminals (2): .250 [6.3] with .07 [1.8] Dia. hole  
 Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot  
 Line Inlet (1): IEC 60320-1 C14  
 HT7 Tapped Inserts (2): 6-32 x 1/4  
 HT7M Tapped Inserts (2): M3 x .5

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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,	<b>3.56</b>	<b>2.15</b>	<b>1.81</b>	<b>2.938</b>	<b>3.38</b>
6EHT1	90.4	54.6	46.0	74.63	85.9
3EHT3,	<b>2.55</b>	<b>2.15</b>	<b>1.81</b>	<b>2.938</b>	<b>3.38</b>
6EHT3	64.8	54.6	46.0	74.63	85.9
3EHT7 / 7M,	<b>3.52</b>	<b>2.25</b>	<b>1.78</b>	<b>1.575</b>	<b>0.63*</b>
6EHT7 / 7M	89.4	57.2	45.2	40.01	16.0*
10EHT1	<b>4.69</b>	<b>2.27</b>	<b>1.8</b>	<b>4.063</b>	<b>4.47</b>
	119.1	57.7	45.7	103.2	113.5
10EHT3	<b>3.69</b>	<b>2.27</b>	<b>1.8</b>	<b>4.063</b>	<b>4.47</b>
	93.7	57.7	45.7	103.2	113.5
15EHT1	<b>5.45</b>	<b>3.12</b>	<b>2.18</b>	<b>3.5</b>	<b>3.96</b>
	138.4	79.2	55.4	88.9	100.6
15EHT6	<b>5.95</b>	<b>3.12</b>	<b>2.18</b>	<b>3.5</b>	<b>3.96</b>
	151.1	79.2	55.4	88.9	100.6

\*±0.02 [0.5]

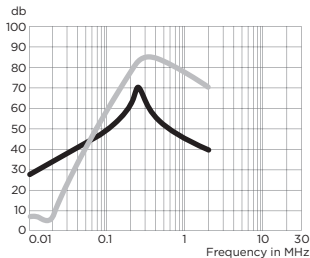
## Performance Data

### Typical Insertion Loss

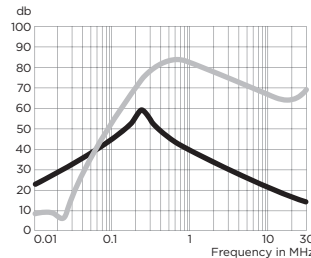
Measured in closed 50 Ohm system

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

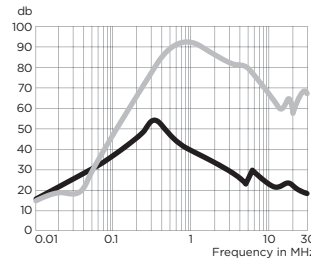
#### 3EHT



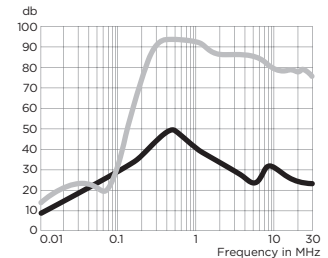
#### 6EHT



#### 10EHT



#### 15EHT



## Minimum Insertion Loss

Common Mode / Asymmetrical (Line to Ground)

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

Differential Mode / Symmetrical (Line to Line)

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

# Mouser Electronics

Authorized Distributor

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[3EHT1](#) [15EHT6](#) [15EHT1](#) [10EHT1](#) [10EHT3](#) [6EHT7](#) [6EHT1](#) [3EHT7M](#) [6EHT3](#) [3EHT7](#) [3EHT3](#)