

# HT Series

High Performance  
RFI Power Line Filters  
for Medical Equipment



UL Recognized  
CSA Certified  
VDE Approved

## HT Series

HT series power line filters provide superior common-mode and premium differential-mode attenuation to RFI noise on the frequency range from 10kHz to 30MHz, for IEC601 and UL544 patient-connected equipment, as well as all other electronic equipment that cannot tolerate any leakage current.

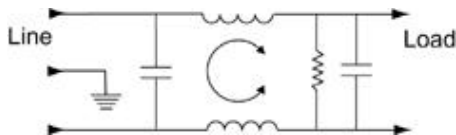
They are a size- and cost-effective solution to the problem of meeting both medical leakage current limits and conducted emissions limits in equipment with high noise sources (such as switching power supplies). HT series filters can ensure compliance to the following Conducted Emissions standards:

- German FTZ Decree #243/1991, Quasi-peak and Averaging limits.
- European Normalized Standards based on EN55022, Level A (in many cases, Level B also).
- FCC Part 15, Computing Devices, Class B.
- FCC Part 18, ISMEquipment, Industrial and Consumer.

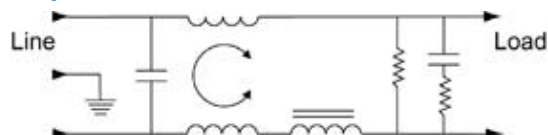
They also provide premium susceptibility protection to medical equipment, permitting error-free operation in noisy environments and enabling compliance to IEC801-6 and the FDA guidelines.

## Electrical Schematics

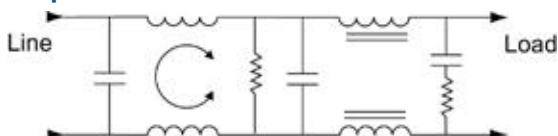
### 6 Amp



### 10 Amp



### 15 Amp



Resistor location for reference only.



## Specifications

Maximum leakage current, each  
line-to-ground @ 120 VAC 60 Hz: 2µA  
@ 250 VAC 50 Hz: 5µA

Hipot rating (one minute):  
line-to-ground 1500 VAC  
line-to-line 1450 VDC

Operating frequency: 50/60 Hz

Rated voltage: 120/250 VAC

Rated current:	@120 VAC	@ 250 VAC
6EHT	6A	5A
10EHT	10A	8A
15EHT	15A	12A

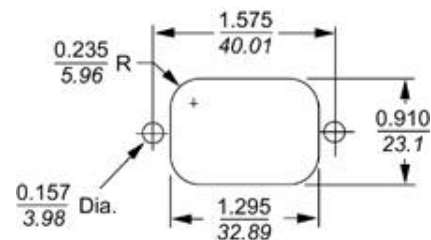
Minimum insertion loss in dB:  
Line-to-ground in 50 ohm circuit

Current Rating	Frequency MHz											
	.01	.02	.05	.08	.15	.5	1	2	5	10	20	30
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	15	5	2

Line-to-line in 50 ohm circuit

Current Rating	Frequency MHz											
	.01	.02	.05	.08	.15	.5	.1	2	5	10	20	30
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

## Recommended Panel Cutout (HT7 & HT7M)



Panel Cutout (Back Mount)

## Line Cord

Line Cord No. GA400

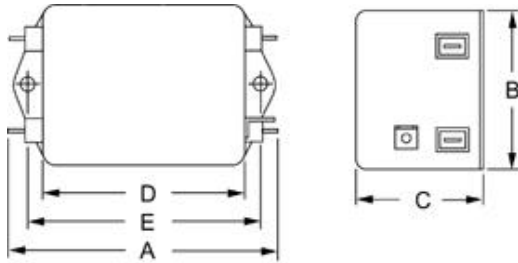
7 1/2 foot, 3-conductor line cord to mate with T7 models

# Series HT

## Case Styles

Metric shown in italics.

### 6EHT1 & 10EHT

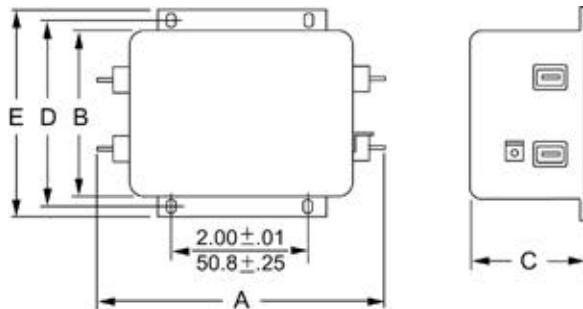


Typical dimensions

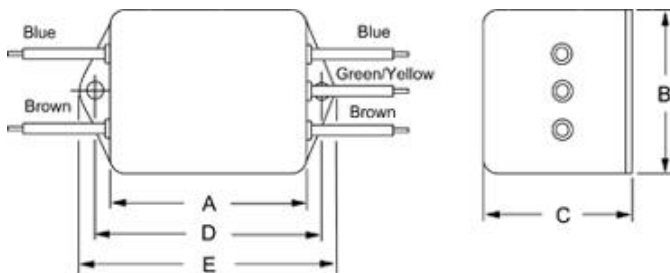
Terminals:  $\frac{.250}{6.35}$  (5) Holes:  $\frac{.07}{1.8}$  Dia. (4) Slot:  $\frac{.07 \times .16}{1.8 \times 4.1}$

Mounting holes:  $\frac{.188}{4.78}$  Dia. (2)

### 15EHT



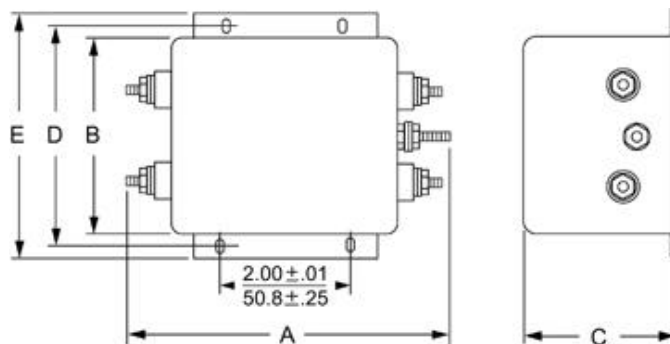
### HT3



Typical dimensions

Wire leads:  $\frac{4.0}{101.6}$  Min. Mounting holes:  $\frac{.188}{4.78}$  Dia. (2)

### HT6



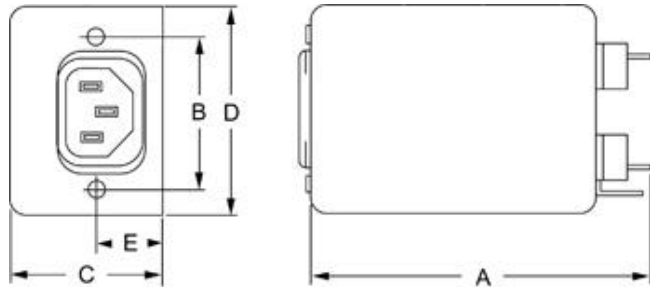
Typical dimensions

Terminals: No. 8-32 (5) Mounting slots:  $\frac{.203 \times .156}{5.16 \times 3.96}$  (4) Torque 18±2 in. lb.

## Case Styles

Metric shown in italics.

### HT7 & HT7M



Tapped insert

No. 6-32 x 1-4 (2) - T7

No. M-3 x .5 (2) - T7M

## Case Dimensions

Metric shown in italics.

Part No.	A (max)	B (max)	C (max)	D $\pm .015$ $\pm .38$	E (max)
6EHT1	$\frac{3.56}{90.4}$	$\frac{2.15}{54.6}$	$\frac{1.81}{46.0}$	$\frac{2.938}{74.63}$	$\frac{3.38}{85.9}$
6EHT3	$\frac{2.55}{64.8}$	$\frac{2.15}{54.6}$	$\frac{1.81}{46.0}$	$\frac{2.938}{74.63}$	$\frac{3.38}{85.9}$ †
6EHT7, 6EHT7M	$\frac{3.52}{89.4}$	$\frac{2.25}{57.2}$	$\frac{1.78}{45.2}$	$\frac{1.575}{40.01}$	$\frac{0.63}{16.0}$
10EHT1	$\frac{4.69}{119.1}$	$\frac{2.27}{57.7}$	$\frac{1.8}{45.7}$	$\frac{4.063}{103.2}$	$\frac{4.47}{113.5}$
10EHT3	$\frac{3.69}{93.7}$	$\frac{2.27}{57.7}$	$\frac{1.8}{45.7}$	$\frac{4.063}{103.2}$	$\frac{4.47}{113.5}$
15EHT1	$\frac{5.45}{138.4}$	$\frac{3.12}{79.2}$	$\frac{2.18}{55.4}$	$\frac{3.5}{88.9}$	$\frac{3.96}{100.6}$
15EHT6	$\frac{5.95}{151.1}$	$\frac{3.12}{79.2}$	$\frac{2.18}{55.4}$	$\frac{3.5}{88.9}$	$\frac{3.96}{100.6}$

†  $\frac{\pm .02}{\pm .5}$

## Ordering Information

Consult your local Corcom sales representative for pricing.

Part No.	Part No.
6EHT1	10EHT1
6EHT3	10EHT3
6EHT7	15EHT1
6EHT7M	15EHT6

