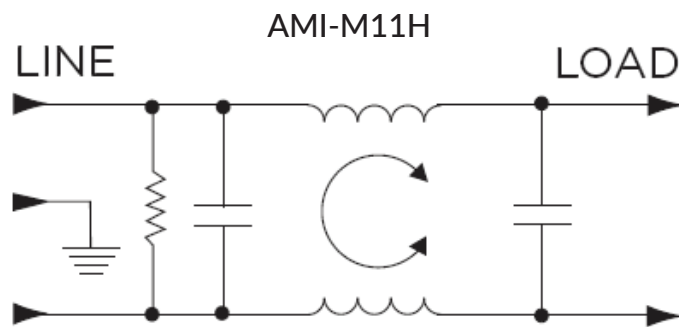


# High Performance Power Line Filter for Medical Applications

AMI-M11H Series

AMI Designation	Input/output Style		Current Rating	Inductance	Capacitance		Resistor	Leakage Current @ 120 VAC 60Hz/250 VAC 50 Hz	TIL Insertion Loss	Case Style
					Cx	Cy				
Available Part Numbers	0.250 Spade Terminals	Threaded Bolts		mH	nF	pF	KΩ	mA		
AMI-M11H-1-4-A	1	-	4	7.06	740	0	470	0.002/0.005	001	A
AMI-M11H-1-6-A	1	-	6	1.45	5.1	0	470	0.002/0.005	002	B
AMI-M11H-1-10-A	1	-	10	0.465	4.97	0	470	0.002/0.005	003	C
AMI-M11H-1-15-A	1	-	15	0.35	5.04	0	470	0.002/0.005	004	C
AMI-M11H-1-20-A	1	-	20	10	4.55	0	470	0.002/0.005	005	C
AMI-M11H-6-30-A	-	6	30	1.45	0.93	0	470	0.002/0.005	006	D

## Electrical Schematic



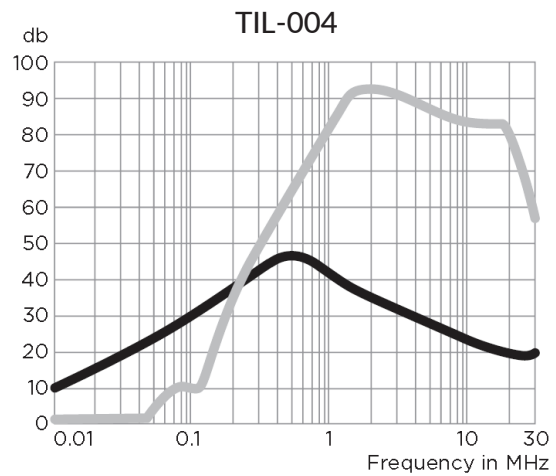
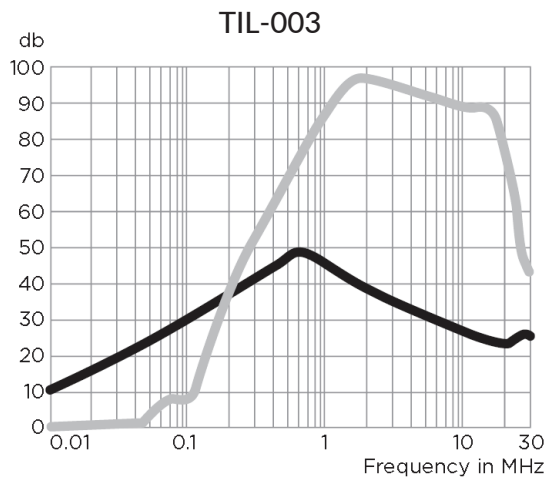
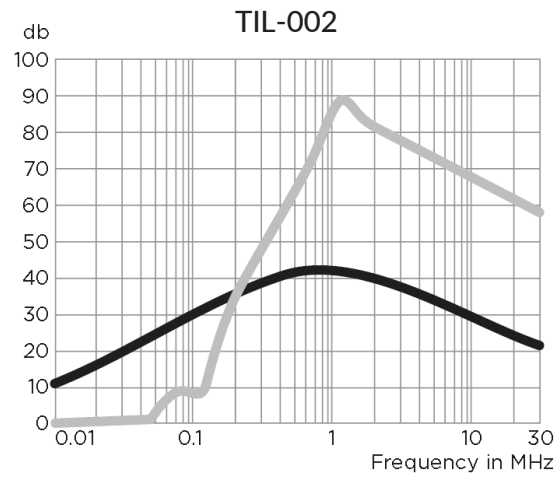
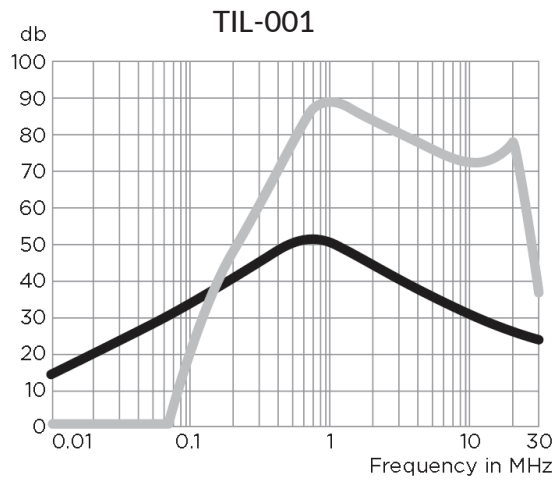
## Specifications:

- Rated Voltage (max): 250 VAC
- Operating Frequency: 50/60 Hz
- Operating Current: 4 to 30 A
- Hi-pot Rating (one minute): Line to Ground: 2250 VDC  
Line to Line: 1450 VDC
- Operating Ambient Temperature Range (at rated current I<sub>r</sub>): -10°C to +40°C. In an ambient temperature (T<sub>a</sub>) higher than +40°C the maximum operating current (I<sub>o</sub>) is calculated as follows:  $I_o = I_r \sqrt{[(85-T_a)/45]}$

# High Performance Power Line Filter for Medical Applications

## Performance Data Typical Insertion Loss

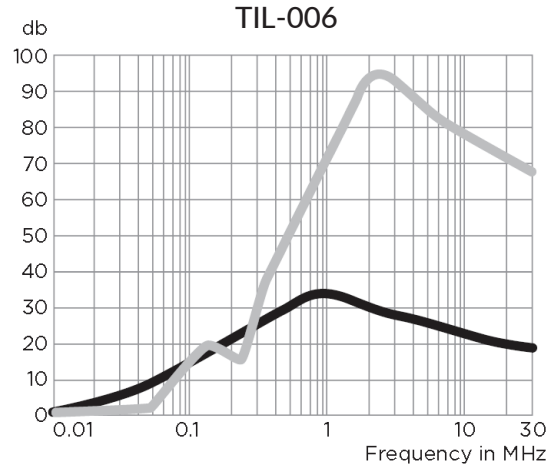
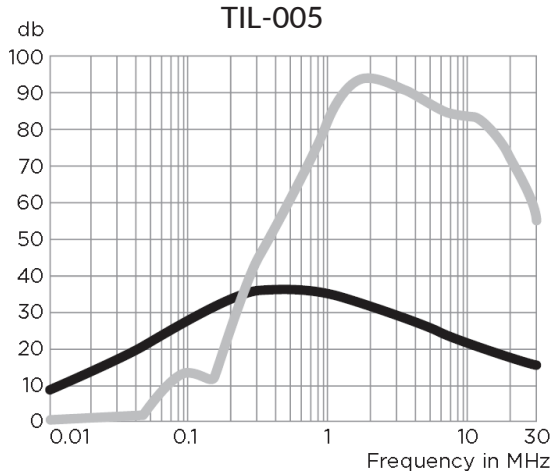
Measured in closed 50 Ohm system



# High Performance Power Line Filter for Medical Applications

## Performance Data Typical Insertion Loss

Measured in closed 50 Ohm system



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

## Minimum Insertion Loss

Common Mode/Asymmetrical (Line to Ground)

	Frequency-MHz						
Current Rating	.05	.15	.5	1	5	10	30
M11H-1-X-A.							
4A	25	36	48	48	31	26	19
6A	22	31	36	34	28	23	17
10A	22	32	43	41	27	22	15
15A	28	31	44	41	25	18	12
20A	19	28	31	29	14	9	4
M11H-6-X-A.							
30A	6	15	28	31	21	18	15

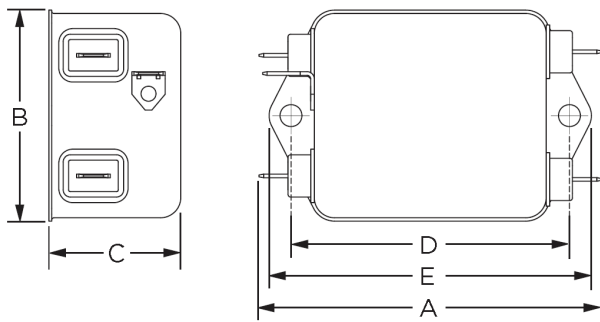
# High Performance Power Line Filter for Medical Applications

## Differential Mode/Symmetrical (Line to Line)

Current Rating	Frequency-MHz						
	.05	.15	.5	1	5	10	30
M11H-1 -X-A.							
4A	-	32	72	83	68	56	55
6A	-	18	60	81	68	61	52
10A	-	22	64	81	81	75	37
15A	-	16	52	77	80	74	48
20A	-	10	54	77	74	69	47
M11H-6 -X-A.							
30A	6	15	28	31	21	18	15

## Case Styles

### STYLE A



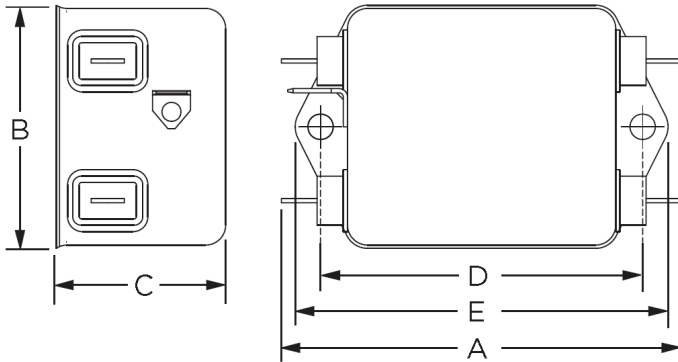
#### Typical Dimensions:

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.

# High Performance Power Line Filter for Medical Applications

## Case Styles

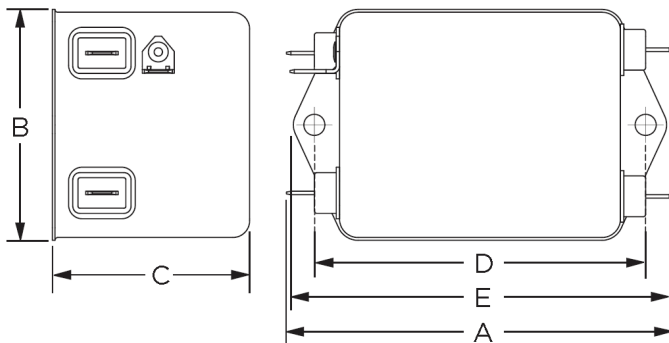
### STYLE B



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.

### STYLE C



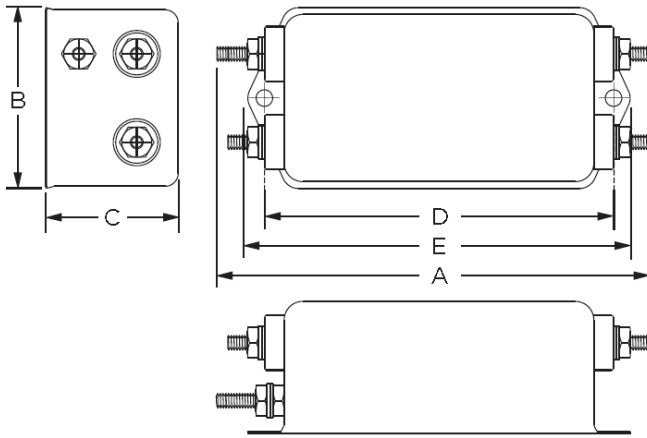
Typical Dimensions:

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.

# High Performance Power Line Filter for Medical Applications

## Case Styles

### STYLE D



Typical Dimensions:

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

## Case Dimensions:

Model Number	A max	B max	C max	D $\begin{smallmatrix} \pm .01 \\ \pm .25 \end{smallmatrix}$	E max
AMI-M11H-1-4-A	3.07"/77.98mm	1.82"/46.23mm	1.16"/29.46mm	2.375"/60.33mm	2.78"/70.61mm
AMI-M11H-1-6-A	3.07"/77.98mm	1.82"/46.23mm	1.28"/32.51mm	2.375"/60.33mm	2.78"/70.61mm
AMI-M11H-1-10-A AMI-M11H-1-15-A AMI-M11H-1-20-A	3.54"/89.92mm	2.047"/51.99mm	1.805"/45.85mm	2.938"/74.63mm	3.54"/89.82mm
AMI-M11H-6-30-A	4.92"/124.97mm	2.07"/52.58mm	1.53"/38.86mm	3.947"/100.25mm	4.33"/109.98mm