

# Chassis or PC Board Mountable Power Line Filters



## AMI-B11AW/M11W Series

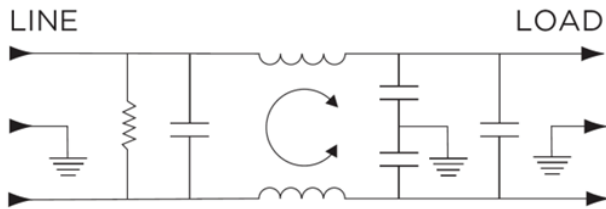
Metal Enclosure Single Phase Single Stage

AMI Designation	Input/output Style		Current Rating	Inductance	Capacitance		Resistor	Leakage Current @ 120 VAC 60Hz/250 VAC 50Hz	TIL Insertion Loss	Case Style
					mH	Cx				
Available Part Numbers	6.3mm Spades Terminals	PCBA Style			nF	pF		mA		
AMI-B11AW1-13-3-B	-	13	3	2.3	370	4000	820	0.3/0.5	001	B
AMI-M11W1-1-3-B	1	-	3	2.3	370	4000	820	0.3/0.5	001	A
AMI-B11AW1-13-4-B	-	13	4	2.2	430	4000	560	0.3/0.5	002	B
AMI-B11AW1-13-6-B	-	13	6	1.89	430	4000	560	0.3/0.5	003	B
AMI-B11AW2-13-2-B	-	13	2	5.7	370	4000	820	0.3/0.5	004	B
AMI-B11AW2-13-3-B	-	13	3	9.57	370	4000	820	0.3/0.5	005	B
AMI-B11AW2-13-4-B	-	13	4	4.68	430	4000	560	0.3/0.5	006	B
AMI-B11AW3-13-1-B	-	13	1	21.2	540	4000	560	0.3/0.5	007	B
AMI-B11AW3-13-2-B	-	13	2	21.52	600	4000	330	0.3/0.5	008	B
AMI-B11AW3-13-3-B	-	13	3	13.77	740	4000	330	0.3/0.5	009	B
AMI-M11W3-1-3-B	1	-	3	13.77	740	4000	330	0.3/0.5	009	A

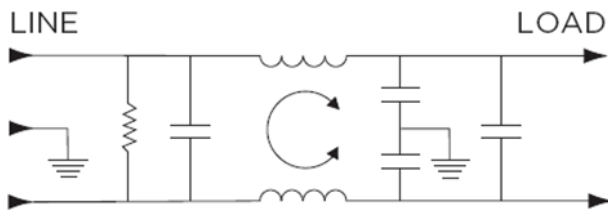
# Chassis or PC Board Mountable Power Line Filters

## Electrical Schematic

Type 1 PCBA Style - AMI-B11AW



Type 2 6.3mm Spade Terminal - AMI-M11W



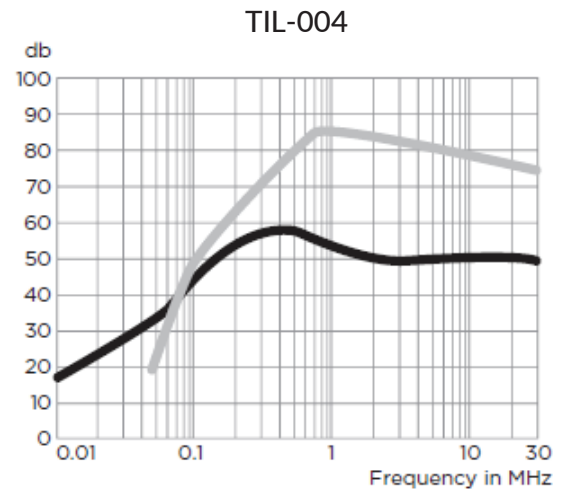
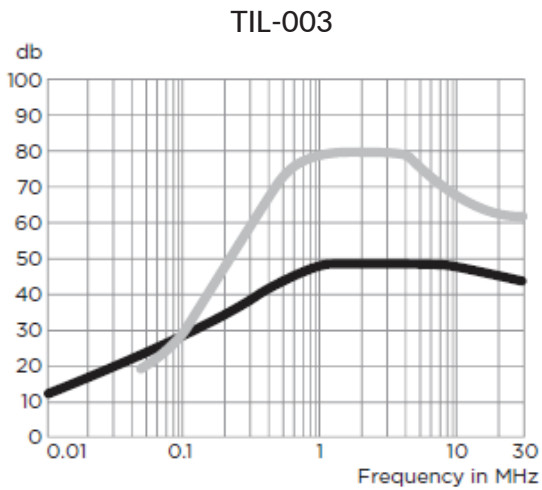
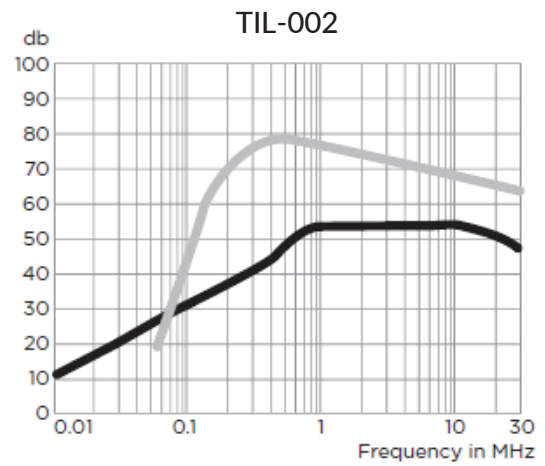
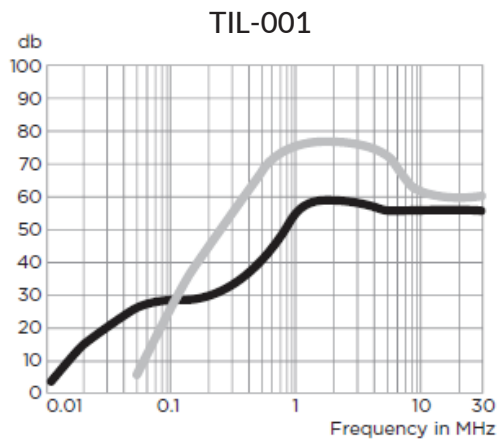
## Specifications:

- Rated Voltage (max): 250 VAC
- Operating Frequency: 50/60 Hz
- Operating Current: 1 to 6 A
- Hi-pot Rating (one minute): Line to Ground: 2250 VDC  
Line to Line: 1450 VDC
- 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:  $I_o = I_r \sqrt{[(85 - T_a) / 45]}$

# Chassis or PC Board Mountable Power Line Filters

## Performance Data Typical Insertion Loss

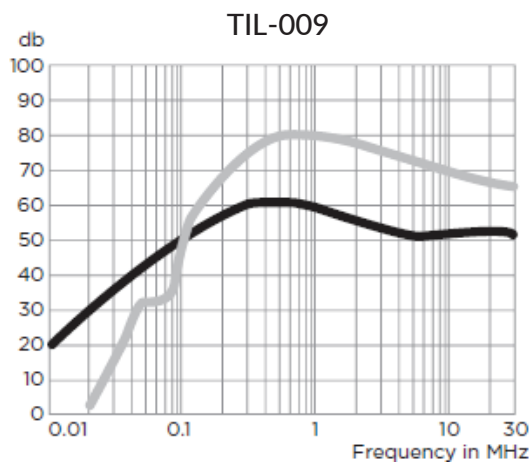
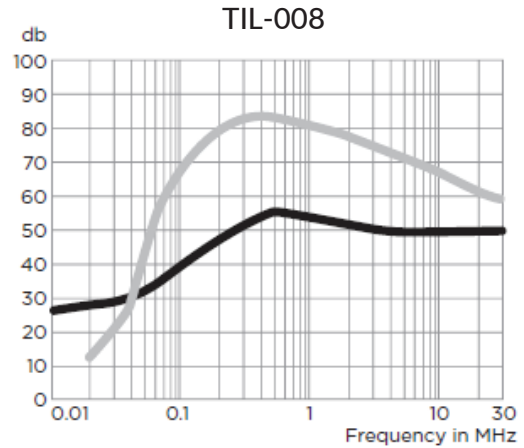
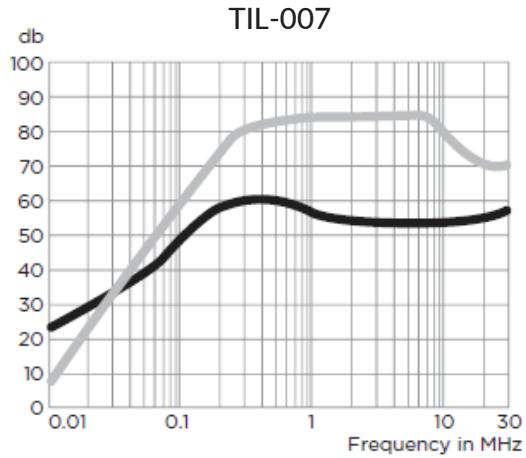
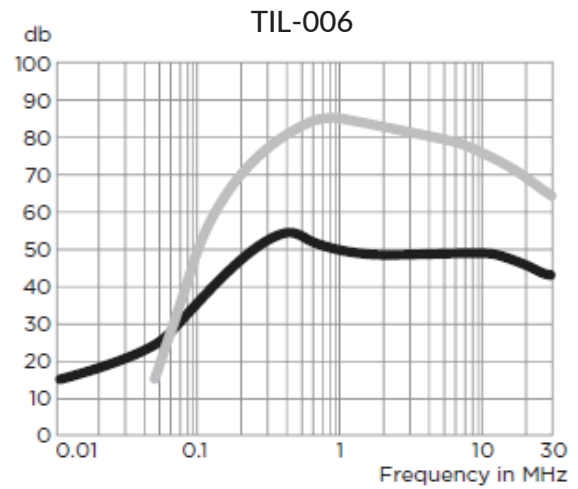
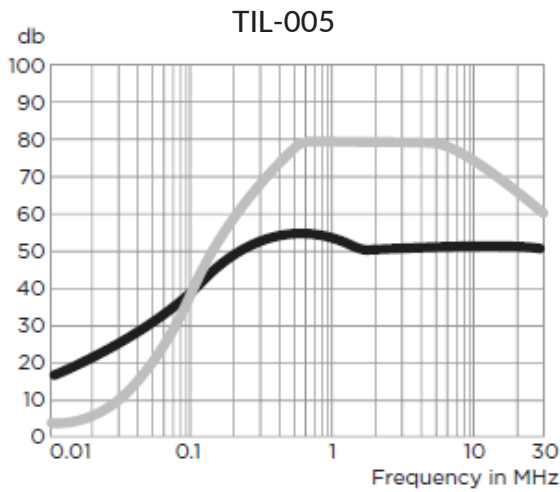
Measured in closed 50 Ohm system



# Chassis or PC Board Mountable Power Line Filters

## Performance Data Typical Insertion Loss

Measured in closed 50 Ohm system



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

# Chassis or PC Board Mountable Power Line Filters

## Minimum Insertion Loss

Common Mode/Asymmetrical (Line to Ground)

Current Rating	Frequency-MHz							
	.01	.05	.15	.5	1	5	10	30
<i>AMI-B11AW1-X-X-B</i>								
3A	2	13	21	35	46	44	44	44
4A	2	13	22	38	44	44	44	38
6A	2	11	20	35	40	40	40	36
<i>AMI-B11AW2-X-X-B1</i>								
2A	8	21	31	49	44	40	40	40
3A	11	24	36	43	40	40	40	40
4A	5	18	28	45	40	40	40	36
<i>AMI-B11AW3-X-X-B2</i>								
1A	18	32	43	47	44	43	43	45
2A	18	32	45	41	40	40	40	40
3A	15	29	39	43	42	40	40	40

# Chassis or PC Board Mountable Power Line Filters

## Minimum Insertion Loss

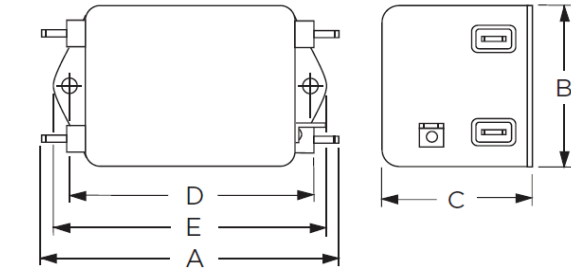
Differential Mode/Symmetrical (Line to Line)

Current Rating	Frequency-MHz									
	.02	.03	.05	.07	.15	.5	1	5	10	30
<i>AMI-B11AW1-X-X-B</i>										
3A	-	-	-	5	34	60	65	60	45	50
4A	-	-	-	10	37	70	70	70	65	55
6A	-	-	-	3	31	65	70	70	65	55
<i>AMI-B11AW2-X-X-B</i>										
2A	-	-	10	19	40	70	75	70	60	55
3A	-	-	10	20	42	68	68	67	62	50
4A	-	-	6	18	41	67	75	70	65	55
<i>AMI-B11AW3-X-X-B</i>										
1A	7	29	34	43	62	70	70	70	60	55
2A	2	15	31	40	57	75	70	65	55	50
3A	-	10	26	34	53	75	75	70	60	55

# Chassis or PC Board Mountable Power Line Filters

## Case Styles

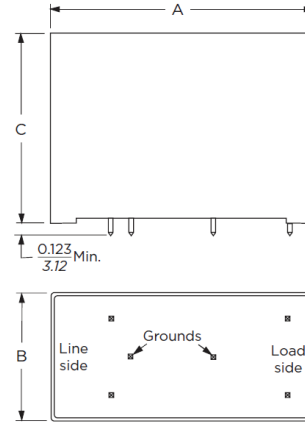
### STYLE A



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.

### STYLE B



Typical Dimensions:  
 Pins (5):

0.065 [1.65] max. diagonal

## Case Dimensions:

Model Number	A max	B max	C max	D $\pm \frac{.015}{\pm .38}$	E max
AMI-B11AW1-13-3-B	2.61"/66.3mm	1.13"/28.7mm	1.62"/41.1mm	-	-
AMI-M11W1-1-3-B	3.01"/76.7mm	1.84"/46.8mm	1.16"/29.46mm	2.375"/60.33mm	2.79"/70.87mm
AMI-B11AW1-13-4-B	2.61"/66.3mm	1.13"/28.7mm	1.62"/41.1mm	-	-
AMI-B11AW1-13-6-B	2.61"/66.3mm	1.13"/28.7mm	1.75"/44.5mm	-	-
AMI-B11AW1-13-2-B	2.61"/66.3mm	1.13"/28.7mm	1.75"/44.5mm	-	-
AMI-B11AW2-13-3-B	2.61"/66.3mm	1.13"/28.7mm	1.75"/44.5mm	-	-
AMI-B11AW2-13-4-B	2.61"/66.3mm	1.13"/28.7mm	1.75"/44.5mm	-	-
AMI-B11AW3-13-1-B	2.61"/66.3mm	1.13"/28.7mm	1.75"/44.5mm	-	-
AMI-B11AW3-13-2-B	2.61"/66.3mm	1.13"/28.7mm	1.75"/44.5mm	-	-
AMI-B11AW3-13-3-B	2.61"/66.3mm	1.13"/28.7mm	1.75"/44.5mm	-	-
AMI-M11W3-1-3-B	3.54"/89.9mm	2.08"/52.8mm	1.31"/33.3mm	2.938"/74.63mm	3.35"/85.1mm