

# General Purpose RFI Filters for High Impedance Loads at Low Current

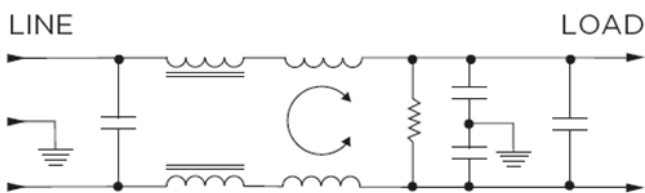
## AMI-M12T/M12U/M12V Series

### Metal Enclosure Single Phase Two Stage

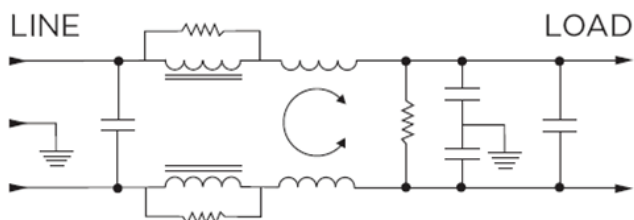
AMI Designation	Input/output Style		Current Rating	Inductance	Capacitance		Resistor	Leakage Current @ 120 VAC 60Hz/250 VAC 50Hz	TIL Insertion Loss	Case Style
					Cx	Cy				
Available Part Numbers	6.3mm Spades Terminals	Wire Leads	A	mH	nF	pF	KΩ	mA		
					AMI-M12T-1-3-B	1		-		
AMI-M12T-1-6-B	1	-	6	1.8	540	5500	330	0.4/0.7	002	A
AMI-M12T-1-10-B	1	-	10	1.2	540	5500	330	0.4/0.7	003	A
AMI-M12U-1-20-B	1	-	20	0.9	810	5500	330	0.4/0.7	004	B
AMI-M12U-6-20-B	-	6	20	0.9	810	5500	330	0.4/0.7	004	C
AMI-M12V-6-60-B	-	6	60	0.27	1470	10000	330	0.75/1.25	005	D

## Electrical Schematic

Type 1 AMI-M12T-1-3/6/10



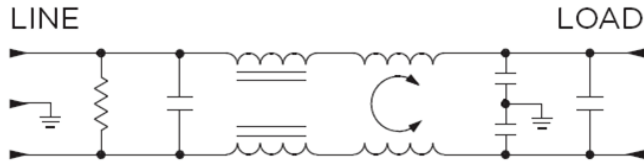
Type 2 AMI-M12U-1-20 & AMI-M12U-6-20



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## Electrical Schematic

Type 3 AMI-M12V-6-60



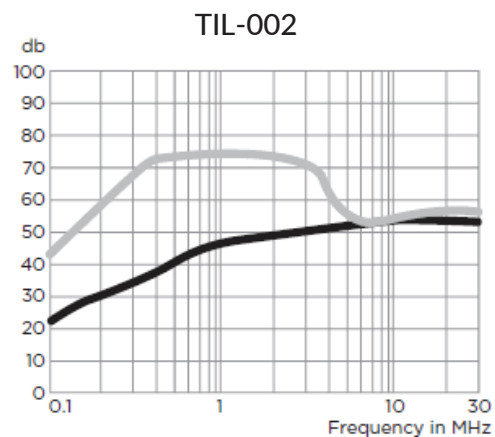
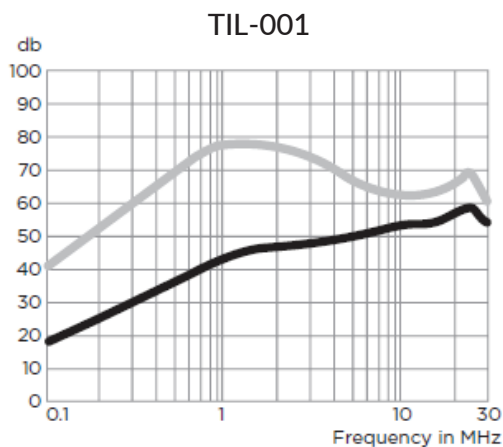
## Specifications:

- Rated Voltage (max): 250 VAC
- Operating Frequency: 50/60 Hz
- Operating Current: 3 to 60 A
- Hi-pot Rating (one minute): Line to Ground: 2250 VDC  
Line to Line: 1450 VDC
- Operating Ambient Temperature Range (at rated current  $I_r$ ):  $-10^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$ . In an ambient temperature ( $T_a$ ) higher than  $+40^{\circ}\text{C}$  the maximum operating current ( $I_o$ ) is calculated as follows:  $I_o = I_r \sqrt{[(85 - T_a)/45]}$

## Performance Data

### Typical Insertion Loss

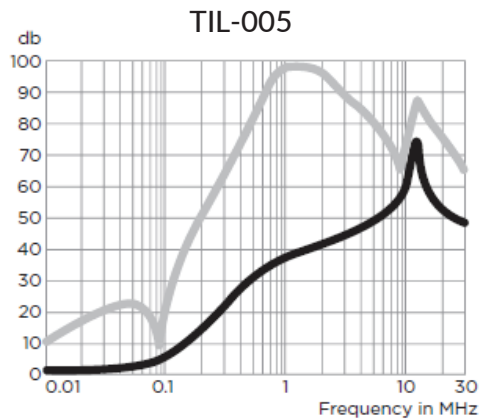
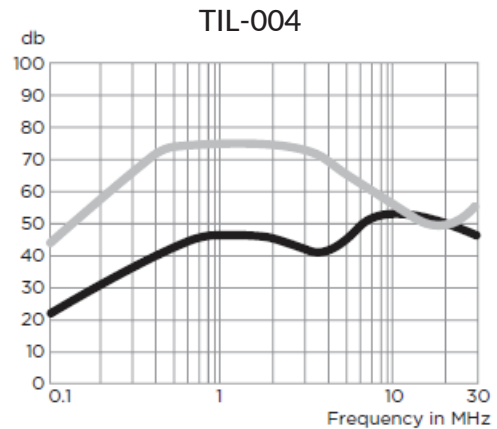
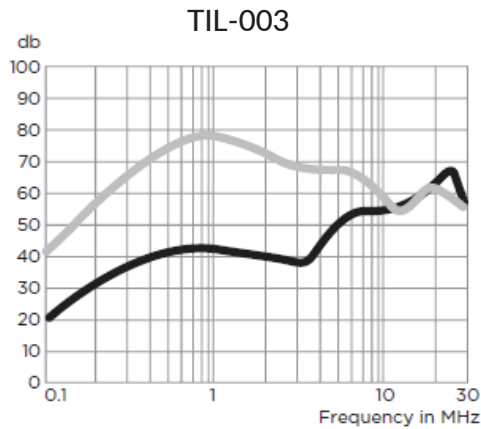
Measured in closed 50 Ohm system



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## Performance Data Typical Insertion Loss

Measured in closed 50 Ohm system



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

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## Minimum Insertion Loss

Measured in closed 50 Ohm system

### Common Mode/Asymmetrical (Line to Ground)

Current Rating	Frequency-MHz							
	.15	.5	1	2	5	10	20	30
3A	15	27	35	40	32	44	47	47
6A	15	27	35	40	32	44	47	47
10A	15	27	35	40	32	44	47	47
20A	15	30	38	38	32	43	42	40
60A	7	27	34	38	45	54	44	40

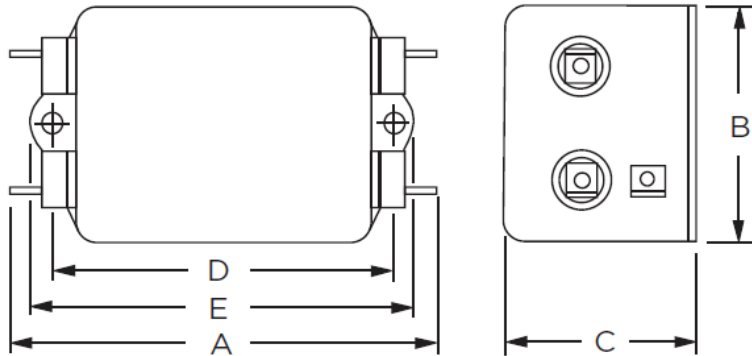
### Differential Mode/Symmetrical (Line to Line)

Current Rating	Frequency-MHz								
	.15	.3	.5	1	2	5	10	20	30
3A	35	50	65	65	65	60	50	40	45
6A	35	50	65	65	65	60	45	48	48
10A	35	50	65	65	65	60	50	40	45
20A	35	50	65	65	65	60	45	48	48
60A	37	-	77	93	86	70	54	64	54

# General Purpose RFI Filters for High Impedance Loads at Low Current

## Case Styles

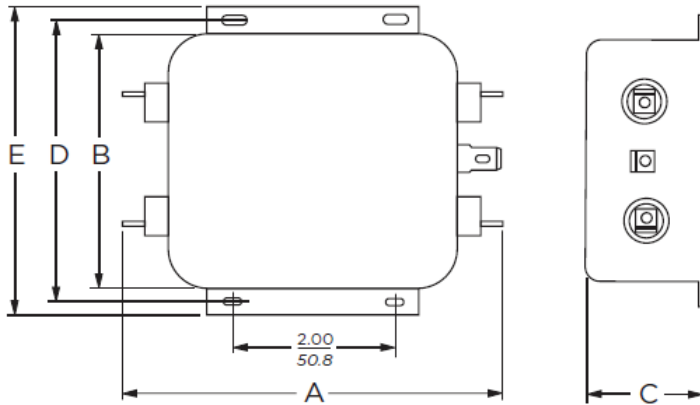
### STYLE A



#### 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



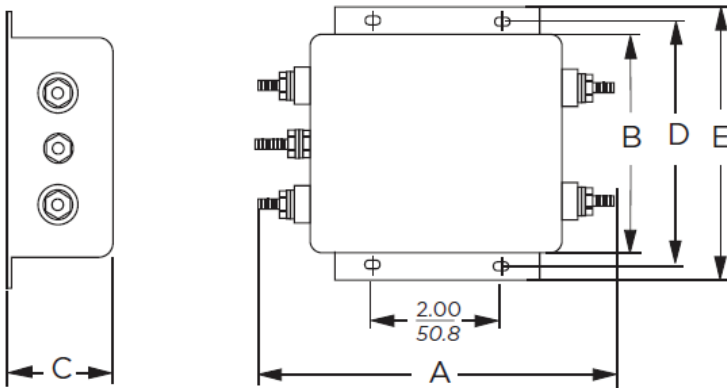
#### Typical Dimensions:

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):	.250 x .156 [6.35 x 3.96] Dia.

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## Case Styles

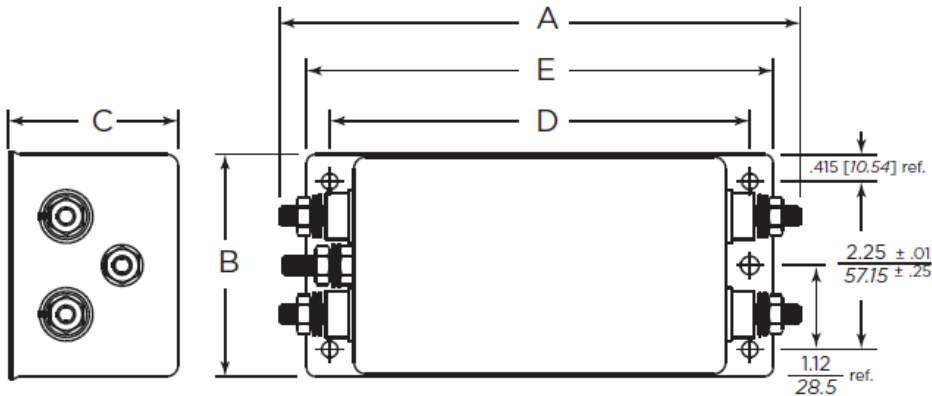
### STYLE C



Typical Dimensions:

Terminals (5): 8-32, Torque 18 lbf-in. [2.03 N-m] max.  $\pm 2$  [.22]  
 Mounting Slots (4): .250 x .156 [6.35 x 3.96] Dia.

### STYLE D



Typical Dimensions:

Terminals (5): 1/4-20, Torque 56 lbf-in. [6.32 N-m] max.  $\pm 2$  [.22]  
 Mounting Holes (5): .218 [5.53] Dia.  $\pm$  .006 [.152]

# General Purpose RFI Filters for High Impedance Loads at Low Current

## Case Dimensions:

Model Number	A max	B max	C max	D $\begin{smallmatrix} \pm .015 \\ \pm .38 \end{smallmatrix}$	E max
AMI-M12T-1-3	3.36"/85.3mm	1.82"/46.2mm	1.16"/29.5mm	2.375"/60.33mm	2.78"/70.6mm
AMI-M12T-1-6	3.86"/98.0mm	2.08"/52.8mm	1.53"/38.9mm	2.938"/74.63mm	3.34"/84.8mm
AMI-M12T-1-10	3.86"/98.0mm	2.08"/52.8mm	1.53"/38.9mm	2.938"/74.63mm	3.34"/84.8mm
AMI-M12U-1-20	5.23"/132.8mm	3.38"/85.9mm	1.53"/38.9mm	3.75"/95.25mm	4.20"/106.7mm
AMI-M12U-6-20	5.34"/135.6mm	3.38"/85.9mm	1.53"/38.9mm	3.75"/95.25mm	4.20"/106.7mm
AMI-M12V-6-60	7.2"/182.88mm	3.08"/78.23mm	2.28"/57.91mm	5.625"/142.87mm	6.25"/158.75mm