

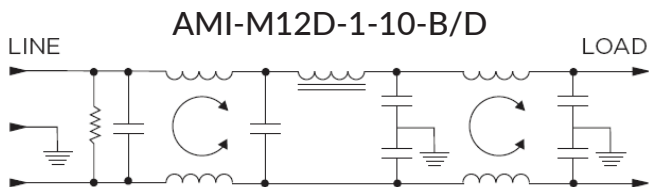
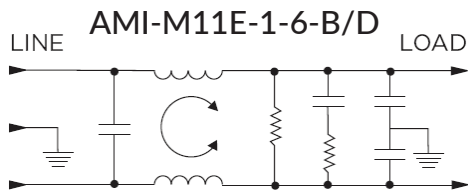
General Purpose RFI Power Line Filters

AMI-M11E/M12D Series

Metal Enclosure Single Phase Single Stage Filters

AMI Designation	Input/output Style	Current Rating	Inductance mH		Capacitance		Resistor K Ω	Leakage Current @ 120 VAC 60Hz/250 VAC 50 Hz mA	TIL Insertion Loss	Case Style
			L	N	Cx	Cy				
Available Part Numbers	6.3mm Spade Terminals		mH	mH	nF	pF				
AMI-M12E-1-6-B	1	6	4.6	4.6	570	4000	560	0.3/0.5	001	A
AMI-M12D-1-10-B	1	10	7.83	7.866	740	4000	330	0.3/0.5	003	A
AMI-M12E-1-6-D-1	1	6	3.45	3.45	570	15000	560	1.2/2.0	002	A
AMI-M12D-1-10-D-1	1	10	7.178	7.142	740	15000	330	1.2/2.0	004	A
AMI-M12E-1-6-D-2	1	6	4.47	4.47	950	15000	330	1.2/2.0	005	A
AMI-M12D-1-10-D-2	1	10	7.83	7.89	1150	15000	270	1.2/2.0	006	A

Electrical Schematic



General Purpose RFI Power Line Filters

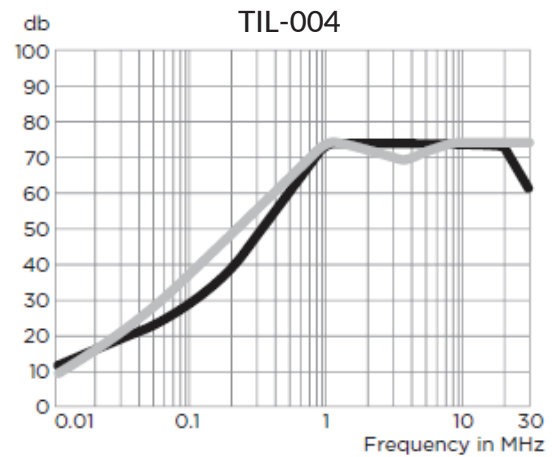
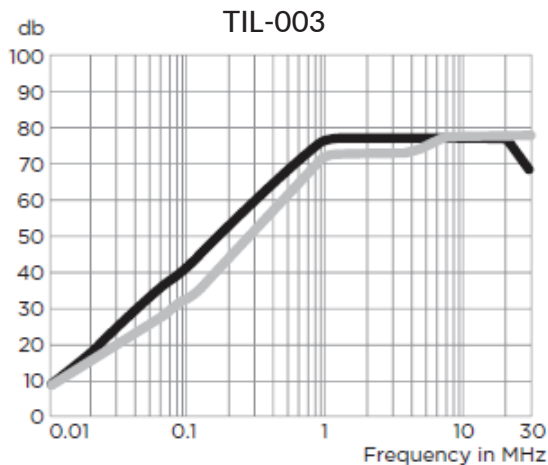
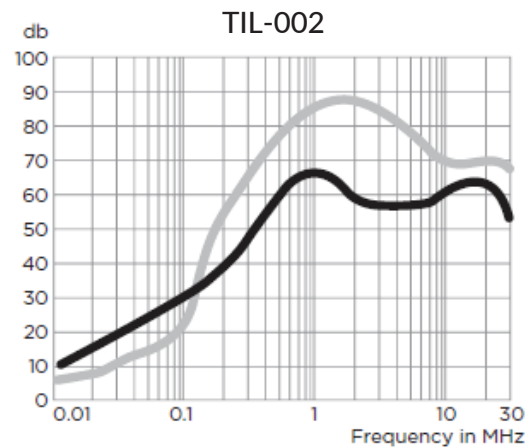
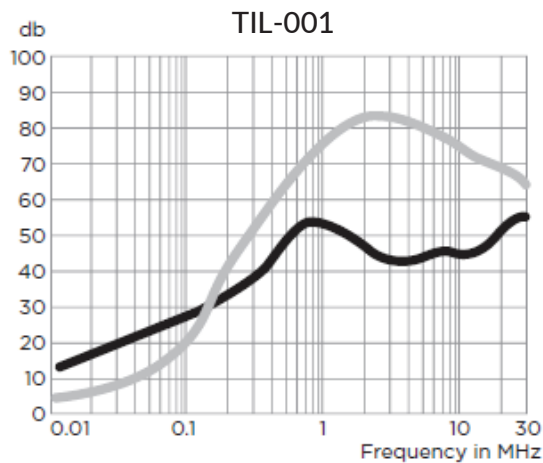
Specifications:

- Rated Voltage (max): 250 VAC
- Operating Frequency: 50/60 Hz
- Operating Current: 6 & 10 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: $I_o = I_r \sqrt{[(85 - T_a)/45]}$

Performance Data

Typical Insertion Loss

Measured in closed 50 Ohm system



General Purpose RFI Power Line Filters

Performance Data Typical Insertion Loss

Measured in closed 50 Ohm system

TIL-005



TIL-006



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

Minimum Insertion Loss

Measured in closed 50 Ohm system

Common Mode/Asymmetrical (Line to Ground)

Current Rating	Frequency-MHz									
	.01	.05	.07	.1	.15	.5	1	5	10	30
<i>AMI-M11E/12D-1-X-B Models</i>										
6A	6	19	23	25	29	48	44	43	40	40
10A	8	10	15	18	42	64	65	65	60	60
<i>AMI-M11E/12D-1-X-D-1 Models</i>										
6A	4	18	21	25	30	56	55	53	45	45
10A	5	10	24	37	50	72	70	70	60	60
<i>AMI-M11E/12D-1-X-D-2 Models</i>										
6A	6	20	-	28	34	58	54	53	53	43
10A	8	8	-	44	55	75	70	70	70	55

General Purpose RFI Power Line Filters

Minimum Insertion Loss

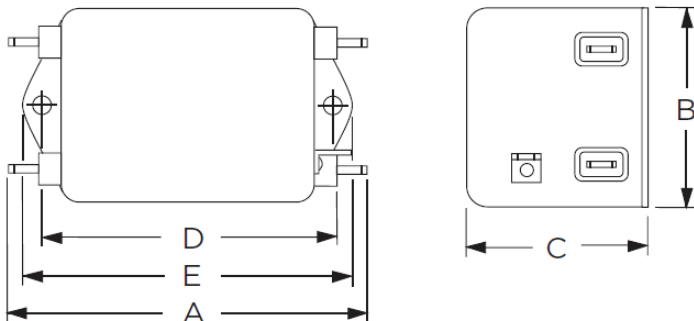
Measured in closed 50 Ohm system

Differential Mode/Symmetrical (Line to Line)

Current Rating	Frequency-MHz									
	.01	.05	.07	.1	.15	.5	1	5	10	30
<i>AMI-M11E/12D-1-X-B Models</i>										
6A	4	6	10	24	37	66	75	72	50	50
10A	5	5	5	26	40	65	65	60	70	70
<i>AMI-M11E/12D-1-X-D-1 Models</i>										
6A	4	7	7	26	39	67	75	68	55	55
10A	5	5	7	26	39	65	60	60	70	70
<i>AMI-M11E/12D-1-X-D-2 Models</i>										
6A	6	14	-	41	52	66	77	72	60	60
10A	6	6	-	35	45	72	70	72	75	70

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.

General Purpose RFI Power Line Filters

Case Dimensions:

Model Number	A max	B max	C max	D $\begin{smallmatrix} \pm .15 \\ \pm .38 \end{smallmatrix}$	E max
AMI-M11E-1-6	3.56"/90.4mm	2.15"/54.6mm	1.56"/39.6mm	2.938"/74.63mm	3.38"/85.8mm
AMI-M12-1-10	4.69"/119.1mm	2.27"/57.7mm	1.8"/45.7mm	4.063"/103.2mm	4.47"/84.8mm
AMI-M11E-1-6-D-2	3.56"/90.4mm	2.15"/54.6mm	1.81"/45.9mm	2.938"/74.63mm	3.38"/85.8mm