

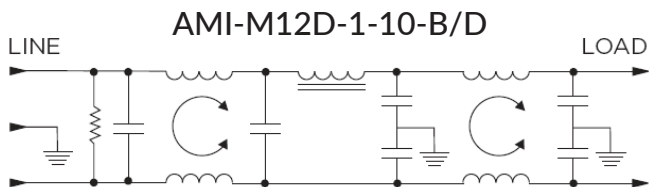
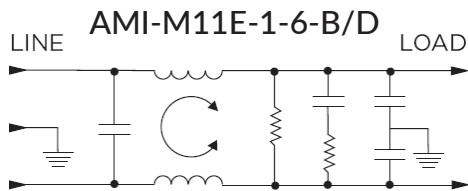
General Purpose RFI Power Line Filters

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

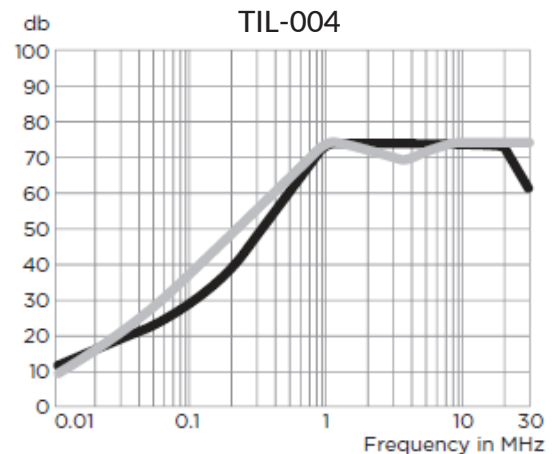
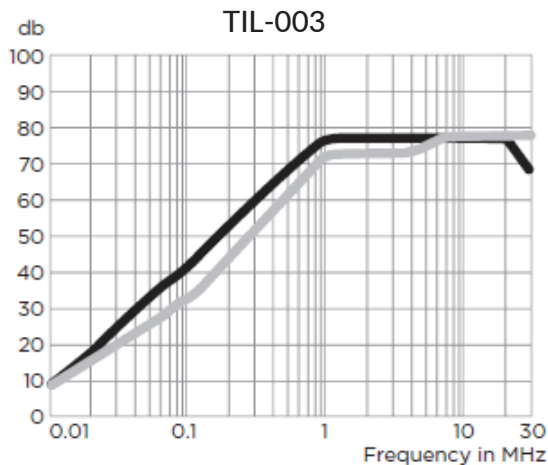
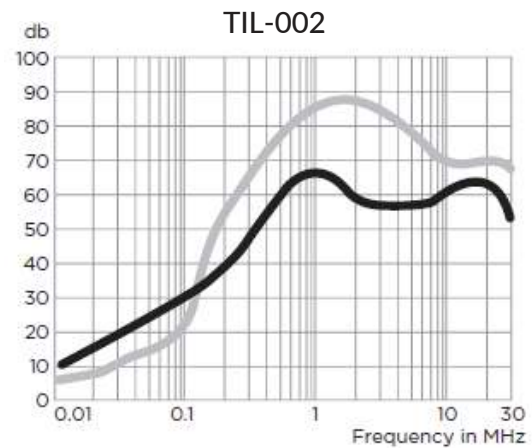
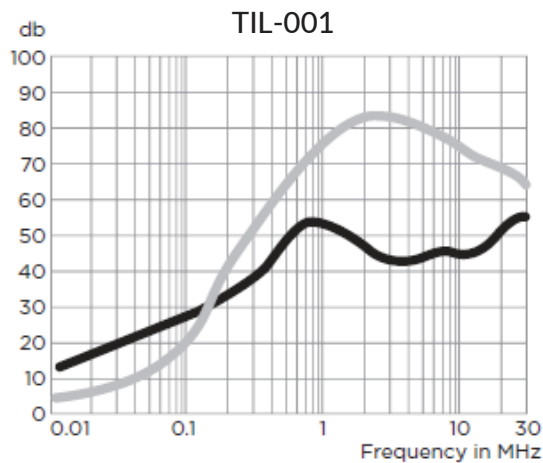
Specifications:

- 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 $+40^{\circ}\text{C}$. 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



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

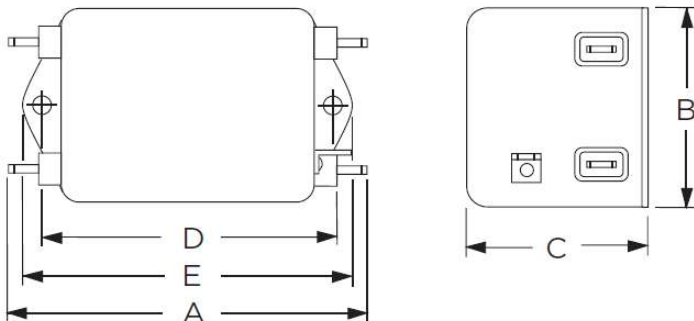
Measured in closed 50 Ohm system

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 |