

# Medium Performance Compact EMI Power Inlet Filter



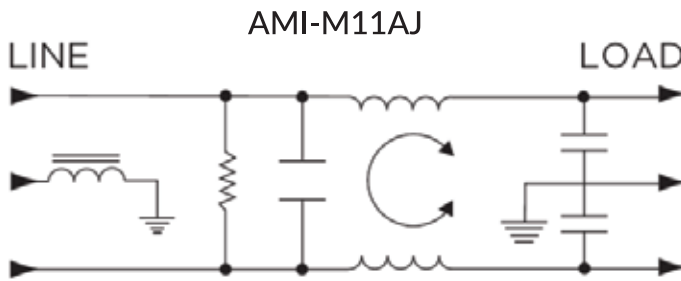
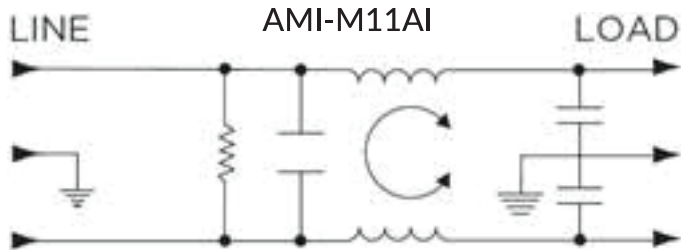
AMI-M11AI/M11AJ Series

Metal Enclosure Single Phase Stage Filter

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		Wire Leads			mH	nF	pF	KΩ	mA		
	Back	Bottom	Back	Bottom								
AMI-M11AI-1-1-B	1	-	-	-	1	1.86	9	2800	1500	0.21/0.36	001	A
AMI-M11AI-1-3-B	1	-	-	-	3	1	9	2800	1500	0.21/0.36	002	A
AMI-M11AI-1-6-B	1	-	-	-	6	0.465	9	2800	1500	0.21/0.36	003	A
AMI-M11AI-1-10-B	1	-	-	-	10	0.36	9	2800	1500	0.21/0.36	004	A
AMI-M11AI-1-15-B	1	-	-	-	15	0.27	47	2800	1500	0.21/0.36	005	A
AMI-M11AI-1A-1-B	-	1A	-	-	1	1.86	9	2800	1500	0.21/0.36	001	B
AMI-M11AI-1A-3-B	-	1A	-	-	3	1	9	2800	1500	0.21/0.36	002	B
AMI-M11AI-1A-6-B	-	1A	-	-	6	0.465	9	2800	1500	0.21/0.36	003	B
AMI-M11AI-4-1-B	-	-	-	4	1	1.86	9	2800	1500	0.21/0.36	001	C
AMI-M11AI-4-3-B	-	-	-	4	3	1	9	2800	1500	0.21/0.36	002	C
AMI-M11AI-4-6-B	-	-	-	4	6	0.465	9	2800	1500	0.21/0.36	003	C
AMI-M11AI-8-1-B	-	-	8	-	1	1.86	9	2800	1500	0.21/0.36	001	D
AMI-M11AI-8-3-B	-	-	8	-	3	1	9	2800	1500	0.21/0.36	002	D
AMI-M11AI-8-6-B	-	-	8	-	6	0.465	9	2800	1500	0.21/0.36	003	D
AMI-M11AJ-1A-10-B	-	1A	-	-	10	0.36	9	2800	1500	0.21/0.36	004	A

# Medium Performance Compact EMI Power Inlet Filter

## Electrical Schematic



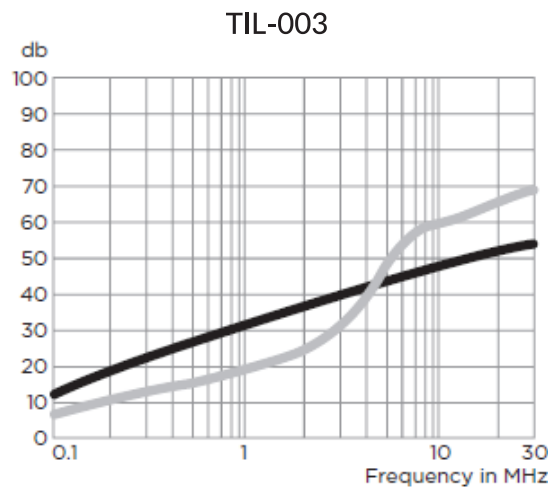
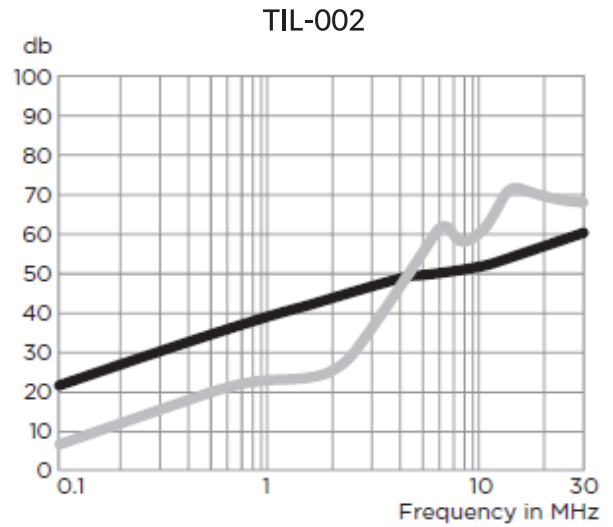
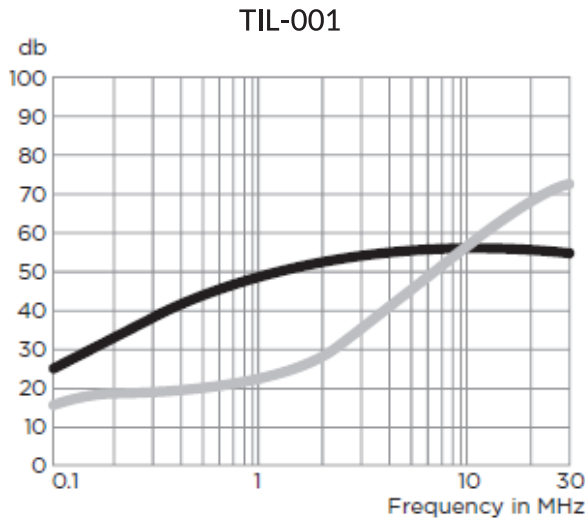
## Specifications:

- Rated Voltage (max): 250 VAC
- Operating Frequency: 50/60 Hz
- Operating Current: 1 to 15A
- 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:  $I_o = I_r \sqrt{[(85 - T_a) / 45]}$

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## Performance Data Typical Insertion Loss

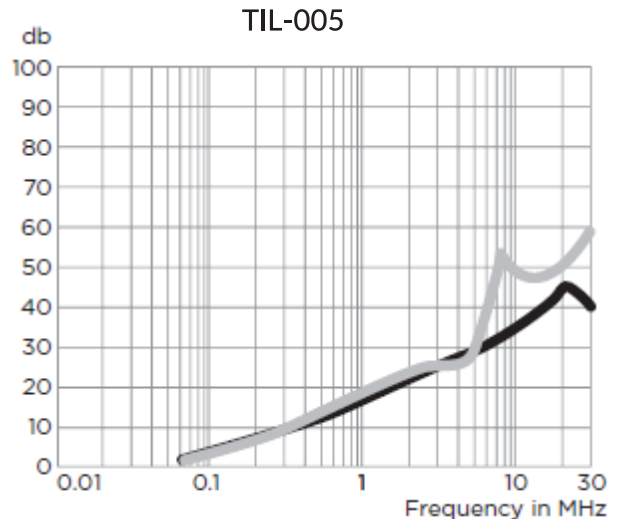
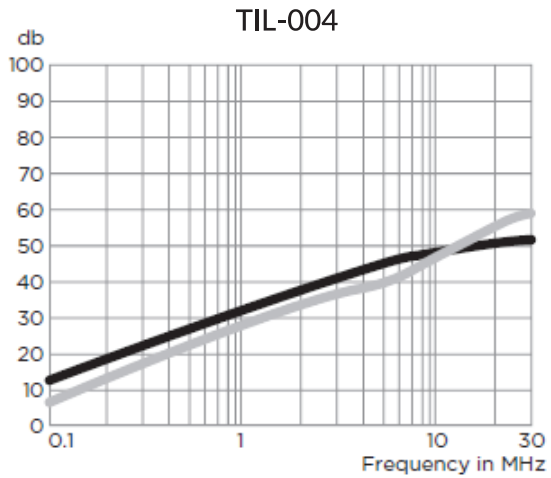
Measured in closed 50 Ohm system



# Medium Performance Compact EMI Power Inlet Filter

## Performance Data Typical Insertion Loss

Measured in closed 50 Ohm system



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

# Medium Performance Compact EMI Power Inlet Filter

## Minimum Insertion Loss

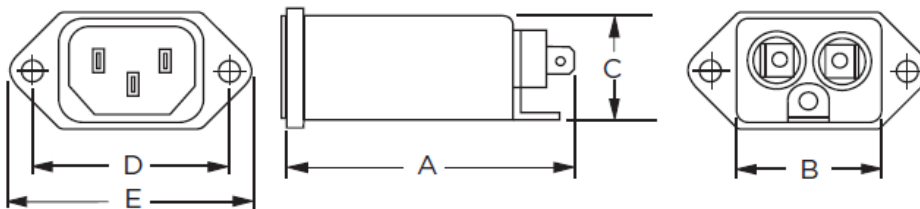
Measured in closed 50 Ohm system

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

Current Rating	Frequency-MHz					
	0.15	0.5	1	5	10	30
AMI-M11-AI-X-1-B (X=1 1A 4 8)	22	35	40	46	50	49
AMI-M11AI-X-3-B (X=1 1A 4 8)	15	25	30	45	50	54
AMI-M11AI-X-6-B (X=1 1A 4 8)	9	20	25	41	45	50
AMI-M11AI-1-10-B	8	15	20	34	39	44
AMI-M11AI-1-15-B	-	6	12	20	25	25
AMI-M11AJ-1A-10-B	8	15	20	34	39	44

## Case Styles

### STYLE A



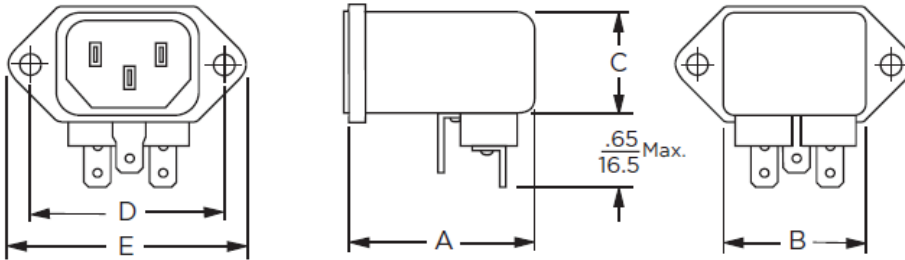
#### Typical Dimensions:

Line Inlet (1):	IEC 60320-1 C14
Load Terminals (2):	.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

# Medium Performance Compact EMI Power Inlet Filter

## Case Styles

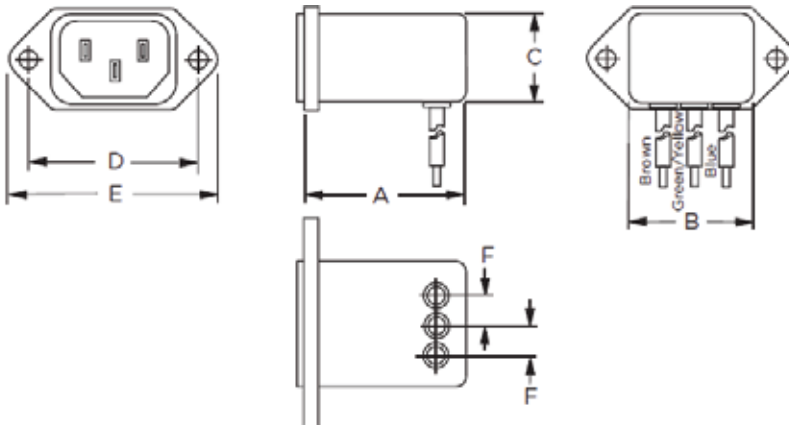
### STYLE B



Typical Dimensions:

Line Inlet (1):	IEC 60320-1 C14
Load Terminals (2):	.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

### STYLE C



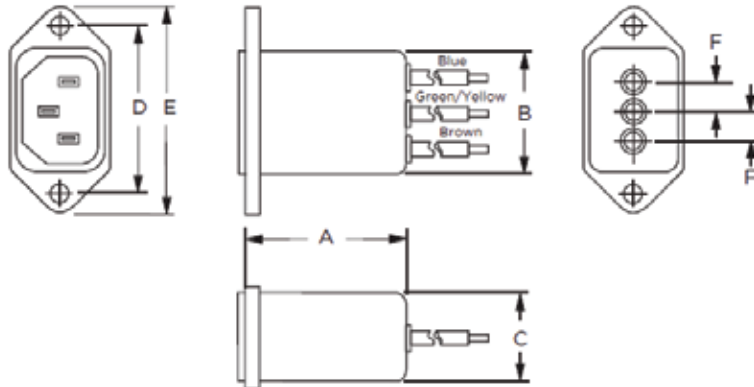
Typical Dimensions:

Line Inlet (1):	IEC 60320-1 C14
Wire Leads:	4.0 [101.6] Min., 18AWG, UL1015

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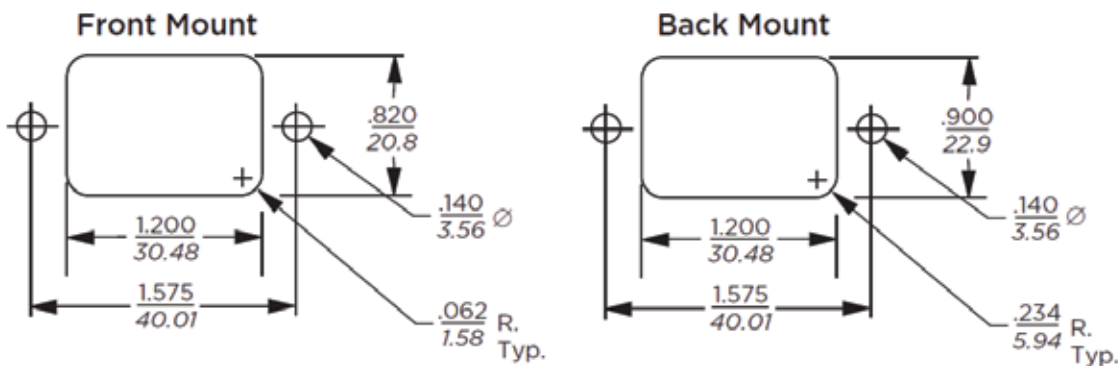
## Case Styles

### STYLE D



Typical Dimensions:  
 Line Inlet (1): IEC 60320-1 C14  
 Wire Leads: 4.0 [101.6] Min., 18AWG, UL1015

## Recommended Panel Cutouts



Tolerances  $\pm .005$  [0.13] unless otherwise noted

### Note:

AMI-M11AI-1-X-B (X=1, 3, 6, 10, 15)	Allow for front or back mounting
AMI-A11AJ-1A-10-B	
AMI-M11AI-8-X-B (X=1, 3, 6)	
AMI-M11AI-1A-X-B (X=1, 3, 6)	Allow for back mounting only
AMI-M11AI-4-X-B (X=1, 3, 6)	

# Medium Performance Compact EMI Power Inlet Filter

## Case Dimensions:

Model Number	A max	B max	C max	D $\begin{smallmatrix} \pm.015 \\ \pm.38 \end{smallmatrix}$	E max	F max
AMI-M11AI-1-X-B (X=1 3 6)	2.21"/56.0mm	1.19"/30.2mm	0.81"/20.6mm	1.575"/40.01mm	1.98"/50.3mm	-
AMI-M11AI-1A-X-B (X=1 3 6)	1.55"/39.4mm	1.19"/30.2mm	0.85"/21.6mm	1.575"/40.01mm	1.98"/50.3mm	-
AMI-M11AI-4-X-B (X=1 3 6)	1.55"/39.4mm	1.19"/30.2mm	0.85"/21.6mm	1.575"/40.01mm	1.98"/50.3mm	0.295"/7.5mm
AMI-M11AI-8-X-B (X=1 3 6)	1.55"/39.4mm	1.19"/30.2mm	0.81"/20.6mm	1.575"/40.01mm	1.98"/50.3mm	0.298"/7.5mm
AMI-M11AI-1-10-B AMI-M11AJ-1A-10-B	2.62"/66.5mm	1.19"/30.2mm	0.81"/20.6mm	1.575"/40.01mm	1.98"/50.3mm	-
AMI-M11AI-1-15-B	2.62"/66.6mm	1.19"/30.2mm	0.81"/20.6mm	1.575"/40.01mm	1.98"/50.3mm	-