

# Cost Effective Medium Performance Power Inlet Filter



## AMI-M11AH Series Enhanced Medical Filters

AMI Designation	Input/output Style				Current Rating	Inductance	Capacitance		Resistor	Leakage Current @ 120 VAC 60Hz/250 VAC 50 Hz	TIL Insertion Loss	Case Style
	IEC Socket/						mH	Cx				
Available Part Numbers	6.3mm Spade Terminals		Wire Leads	PCBA			nF $\pm 20\%$	pF $\pm 20\%$		$\mu A$		
	Back	Bottom										
AMI-M11AH-1-1-A	1	-	-	-	1	10.0	100	none	1500	2 $\mu A$ /5 $\mu A$	001	A
AMI-M11AH-1A-1-A	-	1A	-	-	1	10.0	100	none	1500	2 $\mu A$ /5 $\mu A$	001	B
AMI-M11AH-13-1-A	-	-	-	13	1	10.0	100	none	1500	2 $\mu A$ /5 $\mu A$	001	C
AMI-M11AH-8-1-A	-	-	8	-	1	10.0	100	none	1500	2 $\mu A$ /5 $\mu A$	001	E
AMI-M11AH-1-3-A	1	-	-	-	3	1.45	100	none	1500	2 $\mu A$ /5 $\mu A$	002	A
AMI-M11AH-1A-3-A	-	1A	-	-	3	1.45	100	none	1500	2 $\mu A$ /5 $\mu A$	002	B
AMI-M11AH-13-3-A	-	-	-	13	3	1.45	100	none	1500	2 $\mu A$ /5 $\mu A$	002	C
AMI-M11AH-8-3-A	-	-	8	-	3	1.45	100	none	1500	2 $\mu A$ /5 $\mu A$	002	E
AMI-M11AH-1-6-A	1	-	-	-	6	0.465	100	none	1500	2 $\mu A$ /5 $\mu A$	003	A
AMI-M11AH-1A-6-A	-	1A	-	-	6	0.465	100	none	1500	2 $\mu A$ /5 $\mu A$	003	B
AMI-M11AH-13-6-A	-	-	-	13	6	0.465	100	none	1500	2 $\mu A$ /5 $\mu A$	003	C
AMI-M11AH-8-6-A	-	-	8	-	6	0.465	100	none	1500	2 $\mu A$ /5 $\mu A$	003	E
AMI-M11AH-1-10-A	1	-	-	-	10	0.35	100	none	1500	2 $\mu A$ /5 $\mu A$	004	A
AMI-M11AH-1A-10-A	-	1A	-	-	10	0.35	100	none	1500	2 $\mu A$ /5 $\mu A$	004	B
AMI-M11AH-13-10-A	-	-	-	13	10	0.35	100	none	1500	2 $\mu A$ /5 $\mu A$	004	C
AMI-M11AH-8-10-A	-	-	8	-	10	0.35	100	none	1500	2 $\mu A$ /5 $\mu A$	004	E
AMI-M11AH-1-15-A	1	-	-	-	15	0.086	100	none	1000	2 $\mu A$ /5 $\mu A$	005	A
AMI-M11AH-1A-15-A	-	1A	-	-	15	0.086	100	none	1000	2 $\mu A$ /5 $\mu A$	005	B
AMI-M11AH-13-15-A	-	-	-	13	15	0.086	100	none	1500	2 $\mu A$ /5 $\mu A$	005	C

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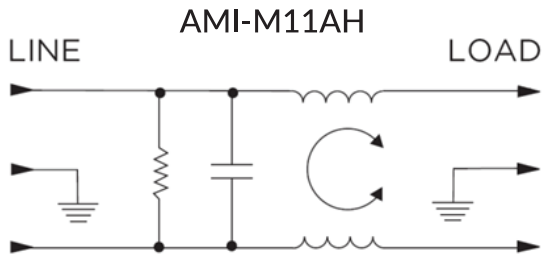


AMI Designation	Input/output Style				Current Rating	Inductance	Capacitance		Resistor	Leakage Current @ 120 VAC 60Hz/250 VAC 50 Hz	TIL Insertion Loss	Case Style
	IEC Socket/						mH	Cx				
Available Part Numbers	6.3mm Spade Terminals		Wire Leads	PCBA			nF ±20%	pF ±20%		μA		
	Back	Bottom										
AMI-M11AH-8-15-A	-	-	8	-	15	0.086	100	none	1500	2μA/5μA	005	E
AMI-M11AH-1-20-A	1	-	-	-	20	0.306	100	none	1500	2μA/5μA	006	G
AMI-M11AH-8-20-A	-	-	8	-	20	0.306	100	none	1500	2μA/5μA	006	H
AMI-M11AH-1S-1-A	1	-	-	-	1	10.0	100	none	1500	2μA/5μA	001	D
AMI-M11AH-8S-1-A	-	-	8	-	1	10.0	100	none	1500	2μA/5μA	001	F
AMI-M11AH-1S-3-A	1	-	-	-	3	1.45	100	none	1500	2μA/5μA	002	D
AMI-M11AH-8S-3-A	-	-	8	-	3	1.45	100	none	1500	2μA/5μA	002	F
AMI-M11AH-1S-6-A	1	-	-	-	6	0.465	100	none	1500	2μA/5μA	003	D
AMI-M11AH-8S-6-A	-	-	8	-	6	0.35	100	none	1500	2μA/5μA	003	F
AMI-M11AH-1S-10-A	1	-	-	-	10	0.35	100	none	1500	2μA/5μA	004	D
AMI-M11AH-8S-10-A	-	-	8	-	10	0.35	100	none	1500	2μA/5μA	004	F
AMI-M11AH-1S-15-A	1	-	-	-	15	0.086	100	3000	1500	2μA/5μA	005	D
AMI-M11AH-8S-15-A	-	-	8	-	15	0.086	100	3000	1500	2μA/5μA	005	F

Note: S-Snap-in mounting

# Cost Effective Medium Performance Power Inlet Filter

## Electrical Schematic



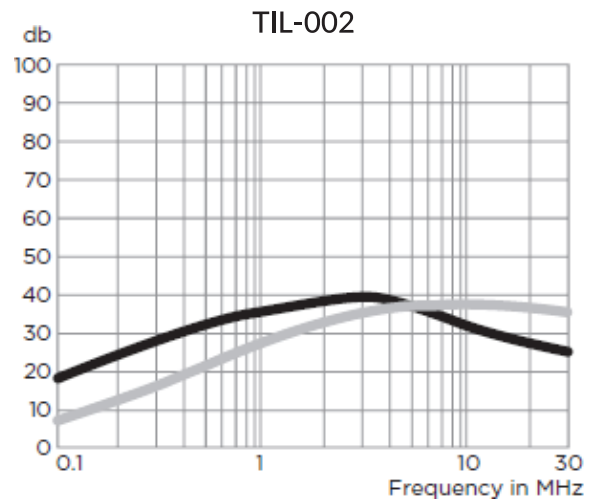
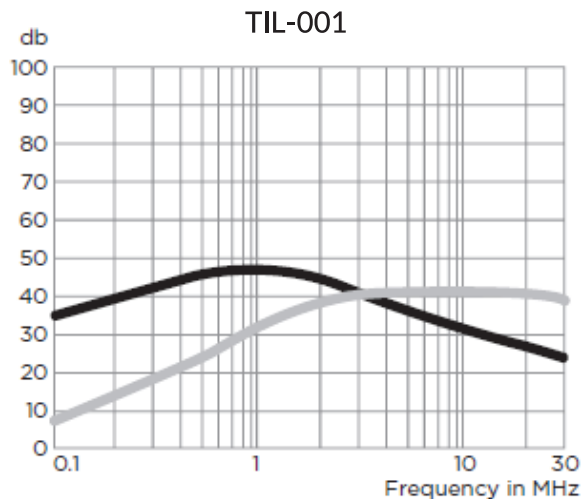
## Specifications:

- Rated Voltage (max): 250 VAC
- Operating Frequency: 50/60 Hz
- Operating Current: 1 to 20A
- 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

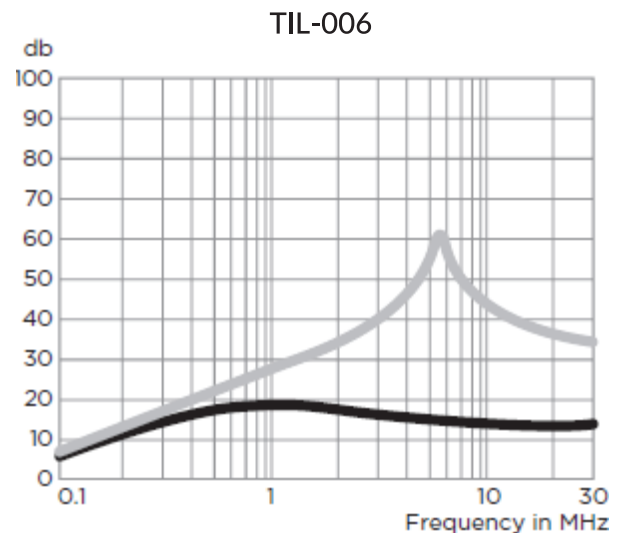
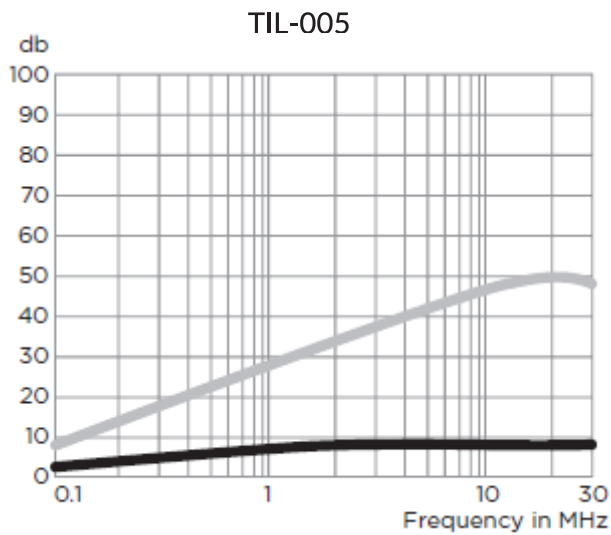
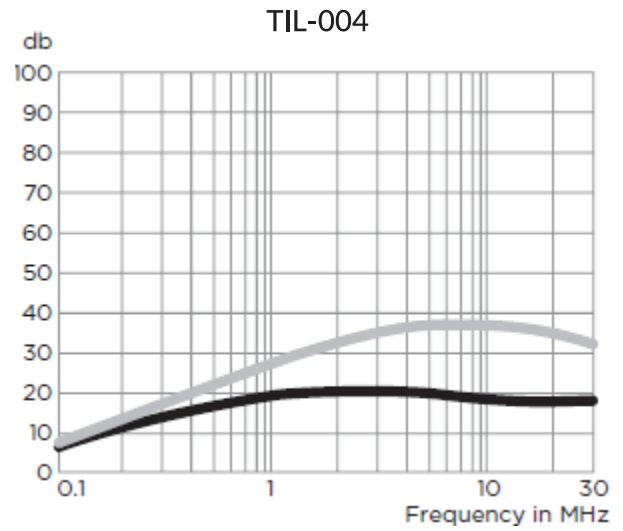
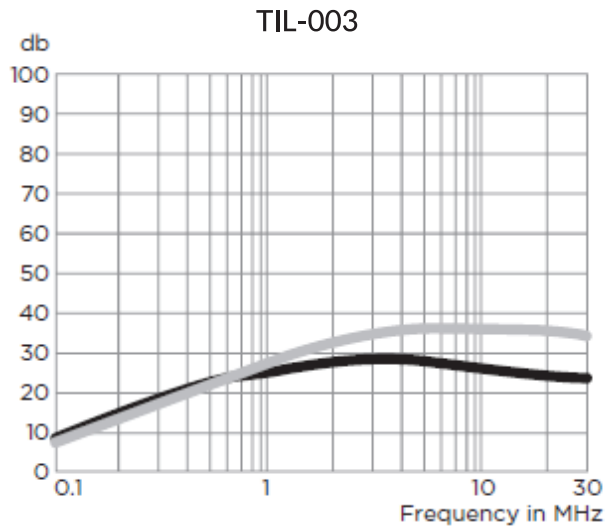
Measured in closed 50 Ohm system



# Cost Effective Medium Performance Power Inlet Filter

## Performance Data Typical Insertion Loss

Measured in closed 50 Ohm system



# Cost Effective Medium Performance Power Inlet Filter

## Minimum Insertion Loss

Measured in closed 50 Ohm system

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

Current Rating	Frequency-MHz								
	.01	.05	.1	.15	.5	1	5	10	30
1A	13	26	33	36	41	41	31	26	18
3A	-	9	15	19	27	31	30	26	20
6A	-	2	6	9	20	22	31	20	18
10A	-	1	4	7	12	17	19	18	18
15A	-	-	1	2	3	3	4	2	2
20A	-	-	3	5	14	16	12	11	11

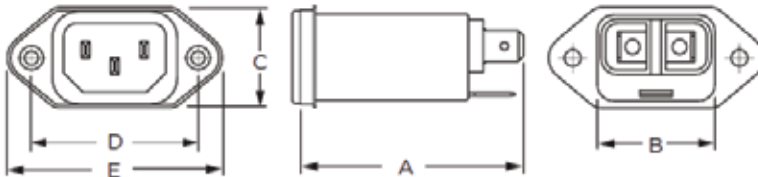
### Differential Mode/Symmetrical (Line to Line)

Current Rating	Frequency-MHz								
	.01	.05	.1	.15	.5	1	5	10	30
1A	13	26	33	36	41	41	31	26	18
3A	-	9	15	19	27	31	30	26	20
6A	-	2	6	9	20	22	31	20	18
10A	-	1	4	7	12	17	19	18	18
15A	-	-	1	2	3	3	4	2	2
20A	-	-	3	5	14	16	12	11	11

# Cost Effective Medium Performance Power Inlet Filter

## Case Styles

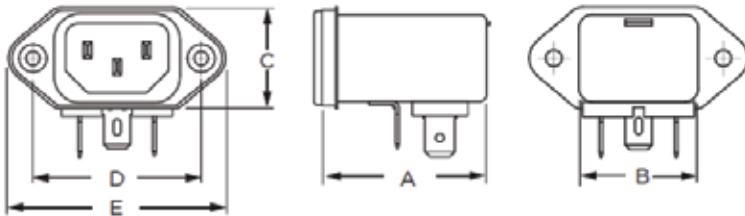
### STYLE A



**Typical Dimensions:**

- Mounting holes (2): .132 [3.35] Dia. with .236 [5.99] Dia. x 90° countersink for #4 flathead screw
- 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

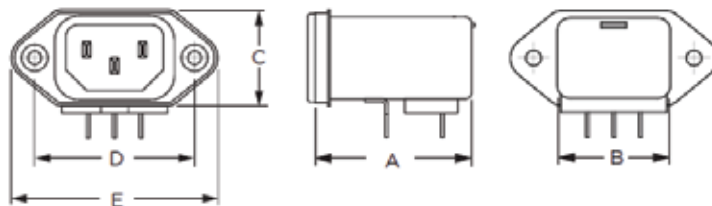
### STYLE B



**Typical Dimensions:**

- Mounting holes (2): .132 [3.35] Dia. with .236 [5.99] Dia. x 90° countersink for #4 flathead screw
- 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



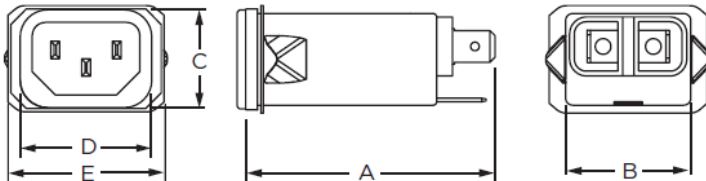
**Typical Dimensions:**

- Mounting holes (2): .132 [3.35] Dia. with .236 [5.99] Dia. x 90° countersink for #4 flathead screw
- Line Inlet (1): IEC 60320-1 C14
- PC board pins (3): .031 [.07] square, ± .003 [.07]

# Cost Effective Medium Performance Power Inlet Filter

## Case Styles

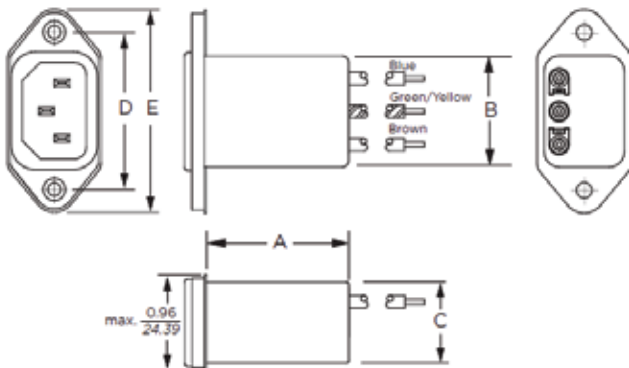
### STYLE D



#### 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

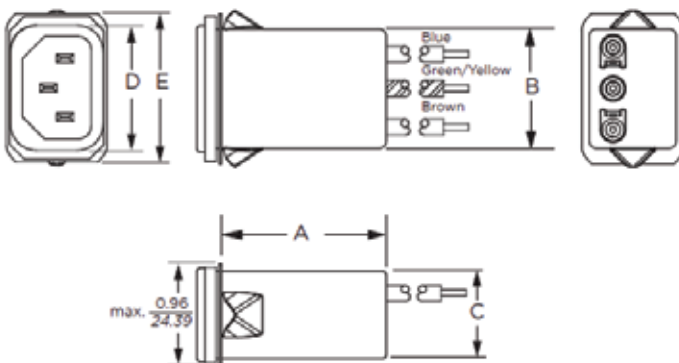
### STYLE E



#### Typical Dimensions:

Mounting holes (2):	.132 [3.35] Dia. with .236 [5.99] Dia. x 90° countersink for #4 flathead screw
Line Inlet (1):	IEC 60320-1 C14
Wire Leads:	4.0 [101.6] Min., 18AWG, UL1015

### STYLE F



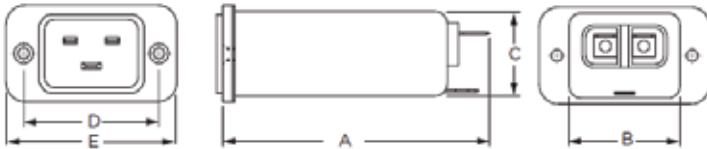
#### Typical Dimensions:

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

# Cost Effective Medium Performance Power Inlet Filter

## Case Styles

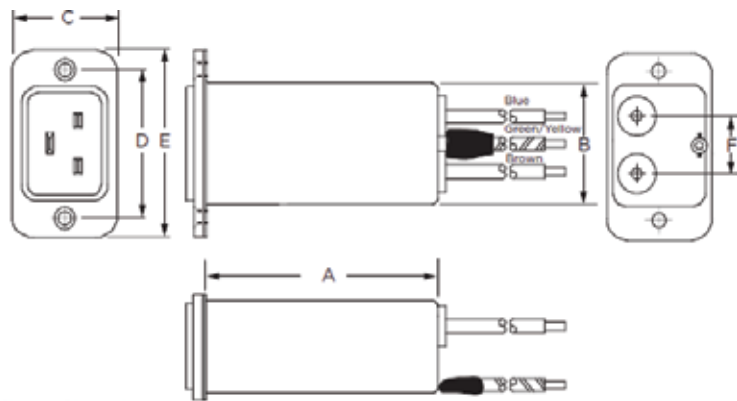
### STYLE G



#### Typical Dimensions:

Mounting holes (2):	.132 [3.35] Dia. with .236 [5.99] Dia. x 90° countersink for #4 flathead screw
Line Inlet (1):	IEC 60320-1 C20
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 H



#### Typical Dimensions:

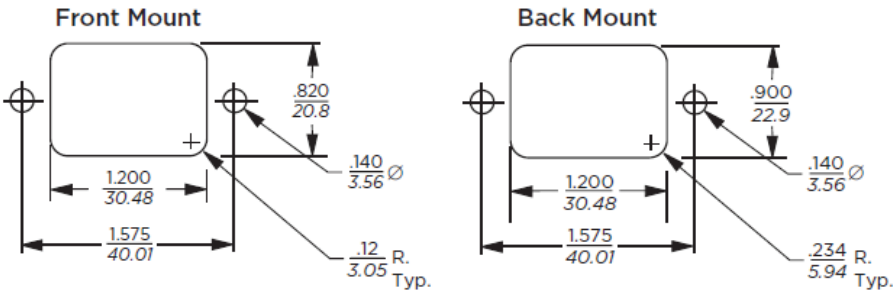
Mounting holes (2):	.132 [3.35] Dia. with .236 [5.99] Dia. x 90° countersink for #4 flathead screw
Line Inlet (1):	IEC 60320-1 C20
Wire Leads:	4.0 [101.6] Min., 14AWG, UL1015



# Cost Effective Medium Performance Power Inlet Filter

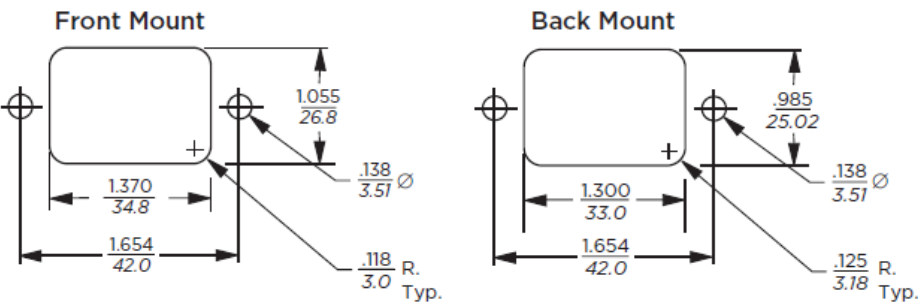
## Recommended Panel Cutouts

1-15A



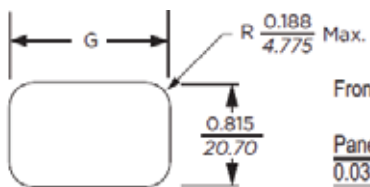
Tolerances  $\pm .005$  [0.13] unless otherwise noted

20A



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

### 1-15A Snap-in Mount Models



Front Mount only

Panel Thickness	G Dim. $\pm .002$ [05]
0.031 - 0.052 [0.79 - 1.32]	1.260 [32.00]
0.046 - 0.068 [1.17 - 1.73]	1.350 [34.29]

Tolerance  $\pm .002$  [050]

Alternate snap configurations to fit other cut-out sizes also available.

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## Case Dimensions:

Model Number	A max	B max	C max	D $\begin{smallmatrix} \pm.015 \\ \pm.38 \end{smallmatrix}$	E max	F(ref)
AMI-M11AH-1-(1-15)-A	2.15"/54.61mm	1.13"/28.70mm	0.96"/24.38mm	1.58"/40.00mm	2.04"/51.76mm	-
AMI-M11AH-1A-(1-10)-A	1.54"/39.12mm	1.13"/28.70mm	0.96"/24.38mm	1.58"/40.00mm	2.04"/51.76mm	-
AMI-M11AH-1A-15-A	1.79"/45.47mm	1.13"/28.70mm	0.96"/24.38mm	1.58"/40.00mm	2.04"/51.76mm	-
AMI-M11AH-13-(1-10)-A	1.54"/39.12mm	1.13"/28.70mm	0.96"/24.38mm	1.58"/40.00mm	2.04"/51.76mm	-
AMI-M11AH-13-15-A	1.79"/45.47mm	1.13"/28.70mm	0.96"/24.38mm	1.58"/40.00mm	2.04"/51.76mm	-
AMI-M11AH-1S-(1-15)-A	2.20"/55.88mm	1.13"/28.70mm	0.96"/24.38mm	1.19"/30.10mm	1.41"/35.81mm	-
AMI-M11AH-8-(1-15)-A	1.54"/39.12mm	1.13"/28.70mm	0.81"/20.70mm	1.58"/40.00mm	2.04"/51.76mm	-
AMI-M11AG-8S-(1-15)-B	1.54"/39.12mm	1.13"/28.70mm	0.81"/20.70mm	1.19"/30.10mm	1.41"/35.81mm	-
AMI-M11AH-1-20-A	3.13"/79.38mm	1.37"/34.79mm	1.18"/29.99mm	1.65"/42.01mm	2.09"/53.00mm	-
AMI-M11AH-8-20-A	2.65"/67.31mm	1.35"/34.29mm	1.18"/29.99mm	1.65"/42.01mm	2.09"/53.00mm	0.62"/15.75mm