



## Features

- (1) 2 mounting options :  
 MC13\*\* Screw mounting type  
 MC13\*\*DIN Din rail mounting type
- (2) Worldwide compliance :  
 Voltage rating 3 phase AC500V, 10, 20, 30A
- (3) Safe design :  
 Terminal with cover, Low leakage current
- (4) Environmental compliance : Lead free soldering

## Safety standard

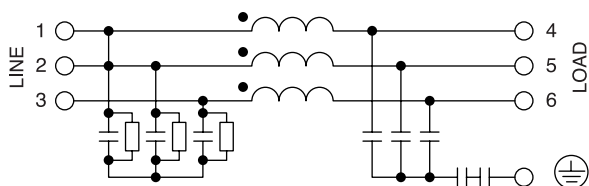
- UL1283
- CSA Std. C22. 2 No. 8
- EN133200

## Specifications

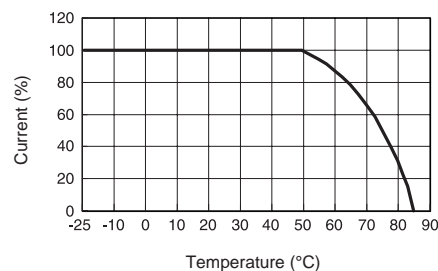
Items	Model	STD type	MC1306	MC1310	MC1320	MC1330
		DIN type	MC1306DIN	MC1310DIN	MC1320DIN	MC1330DIN
1	Rated Voltage (AC)	500V (50/60Hz)				
2	Rated Current (*1)		6A	10A	20A	30A
3	Test Voltage (terminals to base plate, 1min AC)	2000V (100mA) at 25°C, 70% RH				
4	Isolation Resistance (terminals to base plate, 500VDC)	100M min at 25°C, 70% RH				
5	Leakage Current	500V,60Hz	5.0mA max			
6	DC Resistance (three lines)		90m max	68m max	23m max	11m max
7	Temperature Rise	30°C max				
8	Operating Temperature	-25°C ~ +85°C				
9	Operating Humidity	30% ~ 95% RH (No Dewdrop)				
10	Storage Temperature	-40°C ~ +85°C				
11	Storage Humidity	10% ~ 95% RH (No Dewdrop)				
12	Vibration	MC13**	At no operating 10~55~10Hz, Amplitude (Sweep for 1min) 0.825mm constant (Maximum 49.0m/s <sup>2</sup> )X,Y,Z 1hour each At no operating 55~250~55Hz, Acceleration (Sweep for 1min) 19.6m/s <sup>2</sup> , X,Y,Z 1hour each			
		MC13**DIN	At no operating 10~55~10Hz, Acceleration (Sweep for 1min) 9.8m/s <sup>2</sup> , X,Y,Z 1hour each			
13	Weight		600g			

(Note) : Value for Ta≤50°C For Ta>50°C derate according to the derating curve shown on the right.

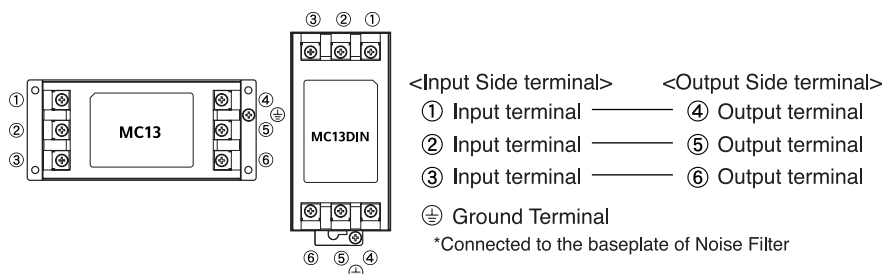
## Circuit



## Derating



## Terminal Explanation

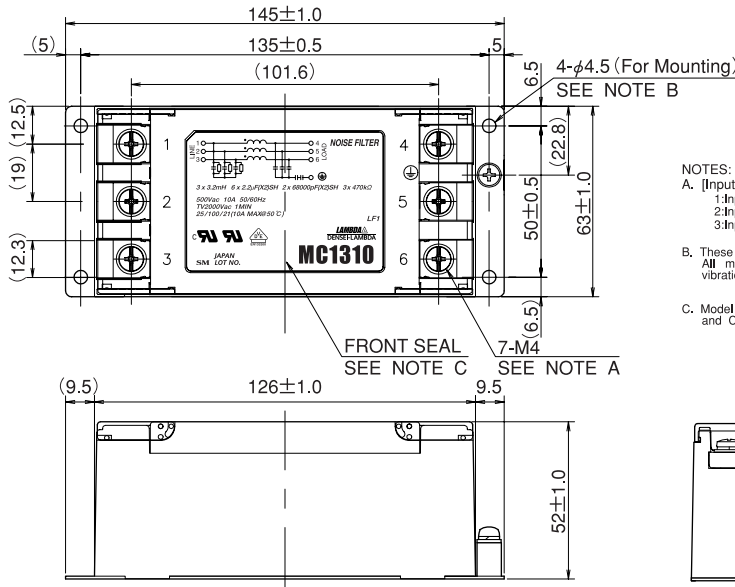


- Request customer specification for further details of specifications, outline, characteristics, etc.  
 Read the instruction manual before usage.
- Contact us about delivery before ordering.

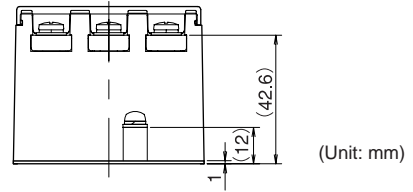
EMI Noise filter

# MC13-SERIES

## MC13\*\*

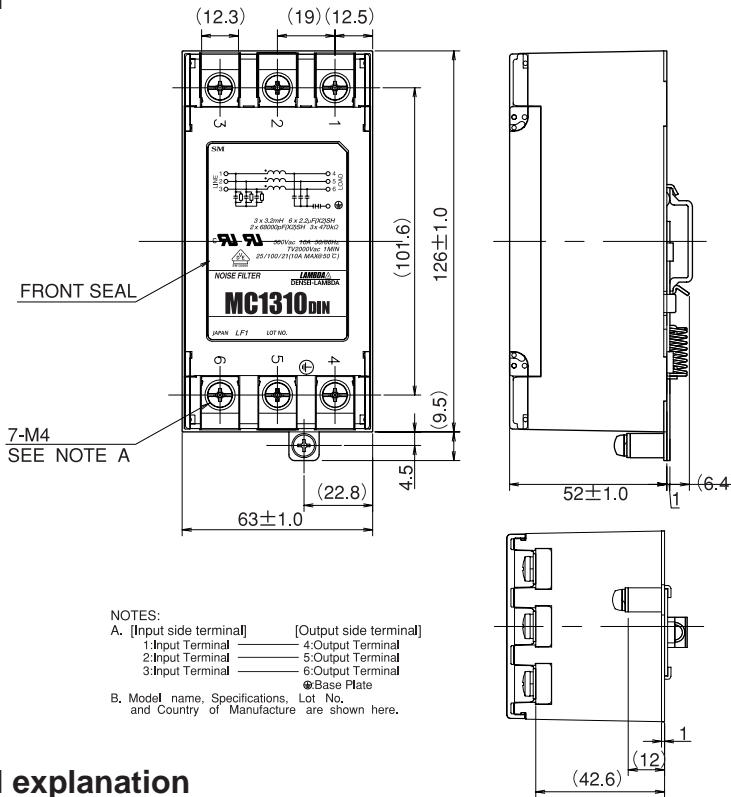


- NOTES:
- A. [Input side terminal] [Output side terminal]  
 1:Input Terminal ——— 4:Output Terminal  
 2:Input Terminal ——— 5:Output Terminal  
 3:Input Terminal ——— 6:Output Terminal  
 ●:Base Plate
- B. These are for customer's chassis mounting. All must be screwed in order to conform the vibration spec.
- C. Model name, Specifications, Lot No. and Country of Manufacture are shown here.



(Unit: mm)

## MC13\*\*DIN



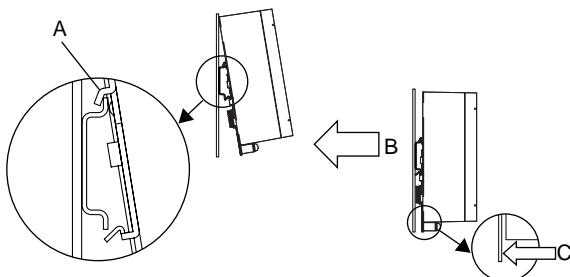
- NOTES:
- A. [Input side terminal] [Output side terminal]  
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 3:Input Terminal ——— 6:Output Terminal  
 ●:Base Plate
- B. Model name, Specifications, Lot No. and Country of Manufacture are shown here.

(Unit: mm)

## MC13\*\*DIN explanation

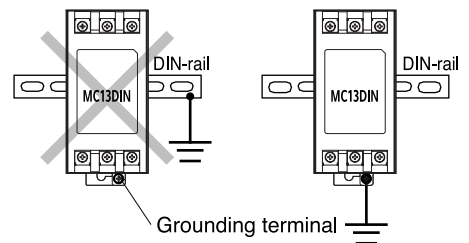
### \*Mounting

MC13\*\*DIN could be mounted on 35mm wide (TS35 type) Din-rail. For mounting, put the part (A) of the unit over the top hat rail and push forward like (B), so that the rail stopper is firmly held on the Din-rail. For unmounting, put a screw driver into the part (C) and lift it up to remove the unit.



### \*Ground

Do not earth whth Din-rail. Earth directly from the ground terminal of MC13\*\*DIN.

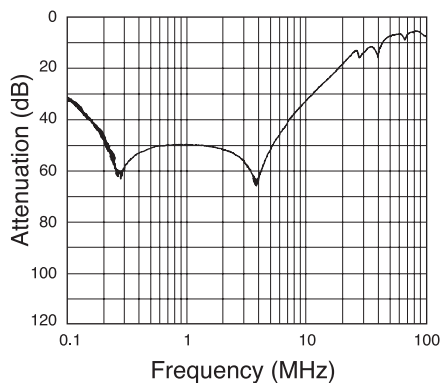


## CHARACTERISTICS

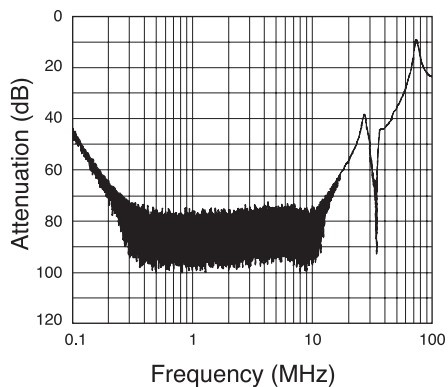
### ■ Attenuation Characteristic (typical)

**MC1306**

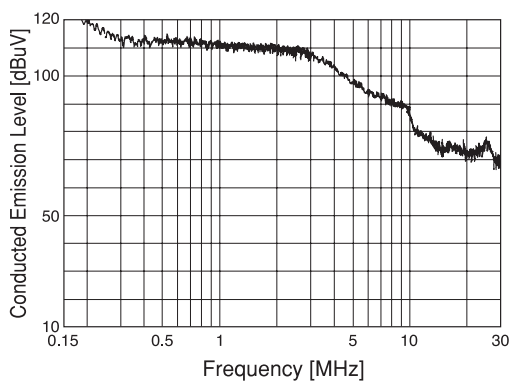
- Asymmetrical



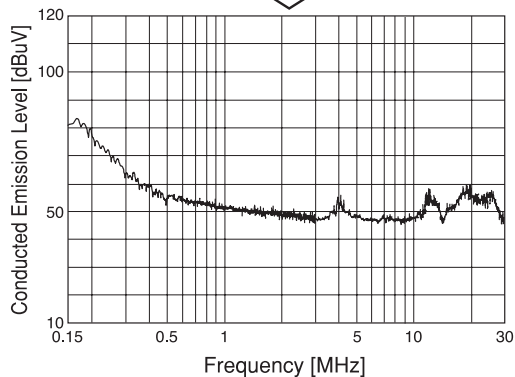
- Symmetrical



- Attenuation characteristics  
Reference Data (Inverter + Motor)

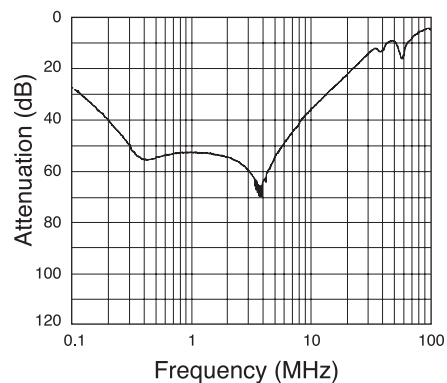


add MC1320

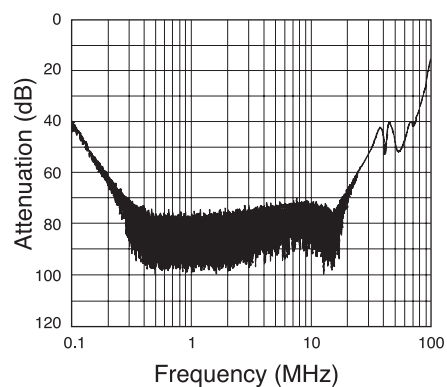


**MC1310**

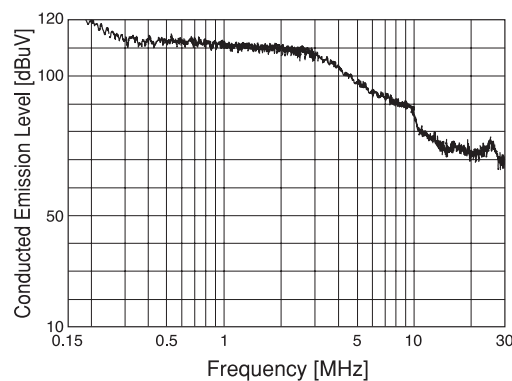
- Asymmetrical



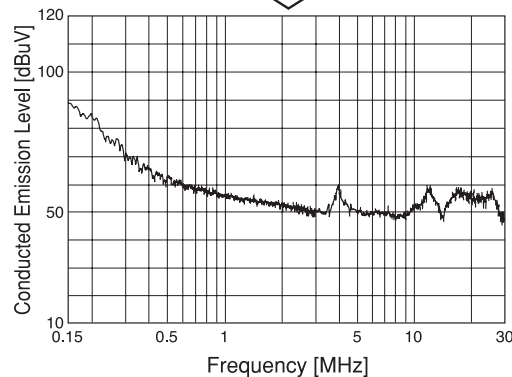
- Symmetrical



- Attenuation characteristics  
Reference Data (Inverter + Motor)



add MC1330



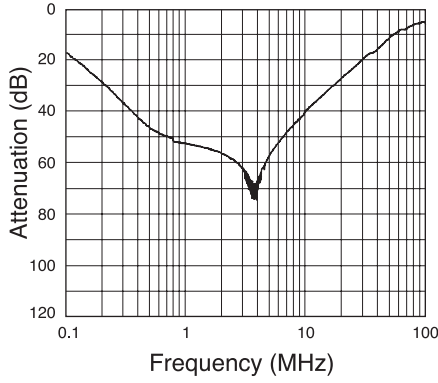
# MC13-SERIES

## CHARACTERISTICS

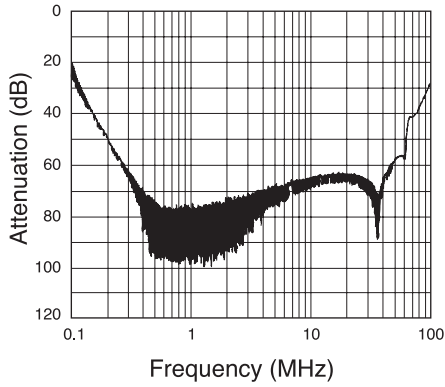
### ■ Attenuation Characteristic (typical)

**MC1320**

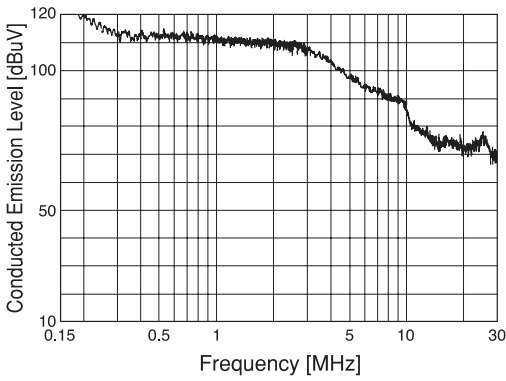
- Asymmetrical



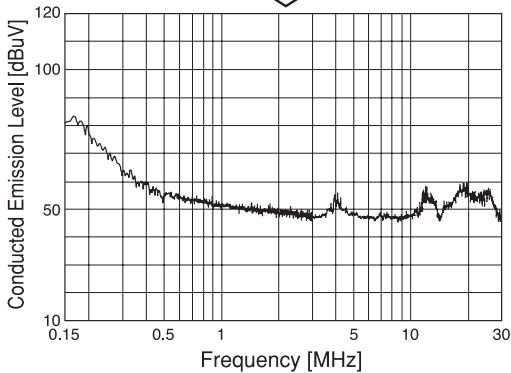
- Symmetrical



- Attenuation characteristics Reference Data (Inverter + Motor)

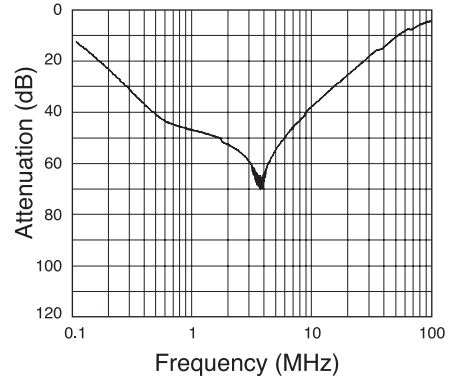


add MC1306

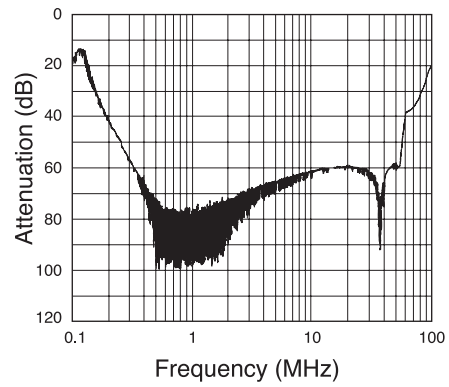


**MC1330**

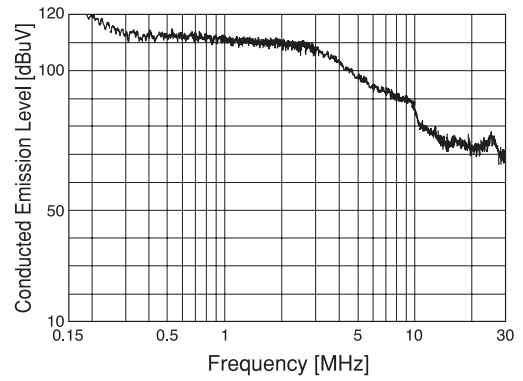
- Asymmetrical



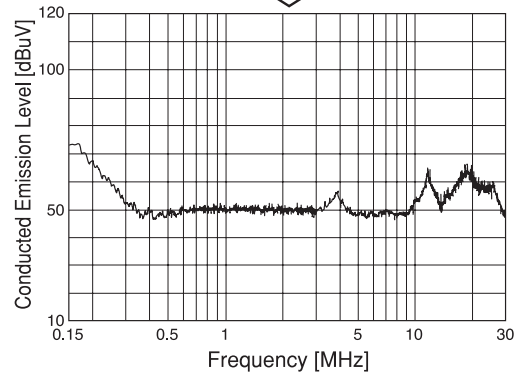
- Symmetrical



- Attenuation characteristics Reference Data (Inverter + Motor)



add MC1310



EMI Noise filter