

# MBS48-SERIES

(DC line filter)

**LAMBDA**  
DENSEI-LAMBDA



## ■ Features

- 1) High attenuation for any noise from low frequency to high frequency by applying large capacity condenser for DC 48V power line  
Major application: Information and telecommunication equipment
- 2) Large stud terminal type  
Several wiring connections available
- 3) Cost saving design  
Compared with our current noise filter for the same capacity for AC input,  
Volume: Less than 30%  
Area occupation: Less than 45%

**CAUTION!**

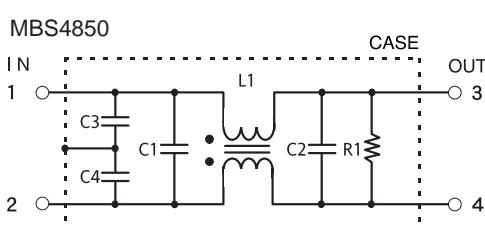
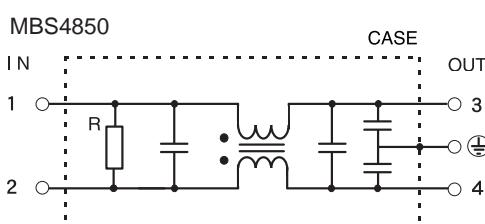
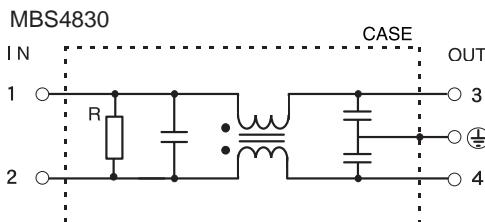
MBS48 series shall be noise filters for DC 48V power line only.  
Use for AC power line is not available.

## ■ Specifications

Item	Model	MBS4830	MBS4850	MBS4850S
1	Rated voltage (DC)	48V (72V DC max)	48V (76V DC max)	48V (76V DC max)
2	Rated current (DC) (Note1)	30A	50A	50A
3	Overload durability (DC) (Note1)	45A (150% of rated current: within 1 min.)	75A (150% of rated current: within 1 min.)	
4	Test voltage	terminal to case, DC 1 minute terminal to terminal, DC 1 minute	700V(20mA)at 25°C,70%RH 100V(20mA)at 25°C,70%RH	1500V(20mA)at 25°C,70%RH 100V(20mA)at 25°C,70%RH
5	Isolation resistance (terminal to case, 500VDC)	500MΩmin. at 25°C,70%RH		
6	DC resistance	8mΩ	4mΩ	3mΩ
7	Temperature rise	35°C max.	30°C max.	40°C max.
8	Operating temperature	-25 ~ +85°C		
9	Operating humidity	30% ~ 95% RH (No dewdrop)		
10	Storage temperature	-40 ~ +85°C		
11	Storage humidity	10% ~ 95% RH (No dewdrop)		
12	Vibration	Sweep: 10 ~ 55 ~ 10 Hz(for 1 minute), Amplitude: 1.5 mm X,Y and conforms to Z axes for 2 hours		
13	Weight (typ)	310g	650g	310g

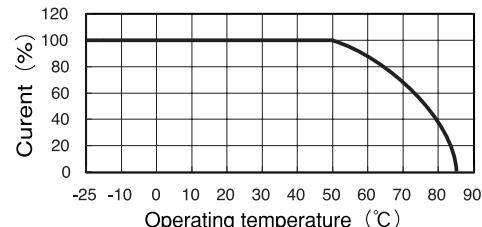
(Note1) : Value at  $T_a \leq 50^{\circ}\text{C}$ . Refer to the derating curve shown below at  $T_a > 50^{\circ}\text{C}$ .

## ■ Circuit

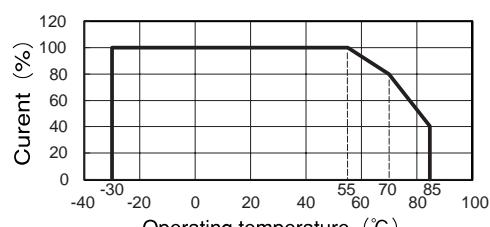


## ■ Derating

MBS4830, MBS4850



MBS4850S

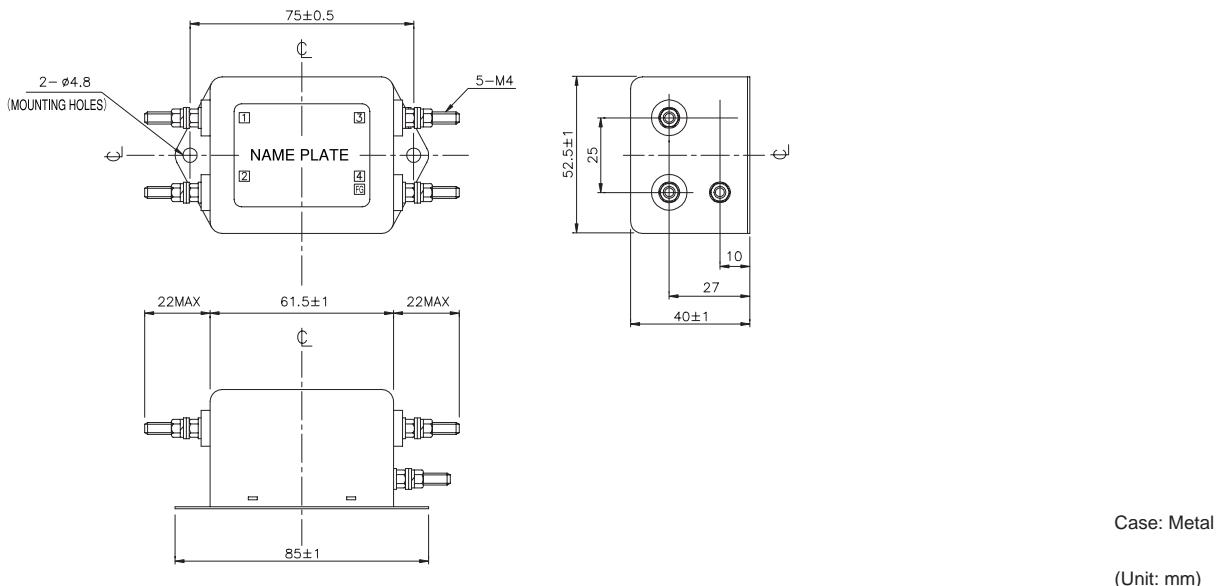


- Request customer specification for further details of specifications, outline, characteristics, etc.  
Read the instruction manual before usage.
- Contact us about delivery before ordering.

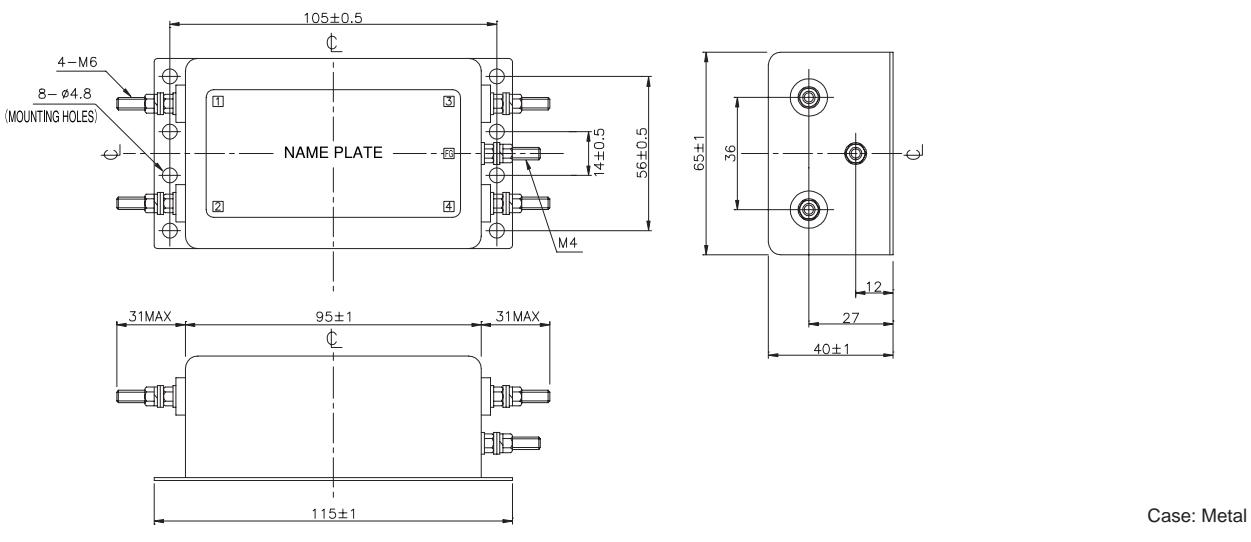
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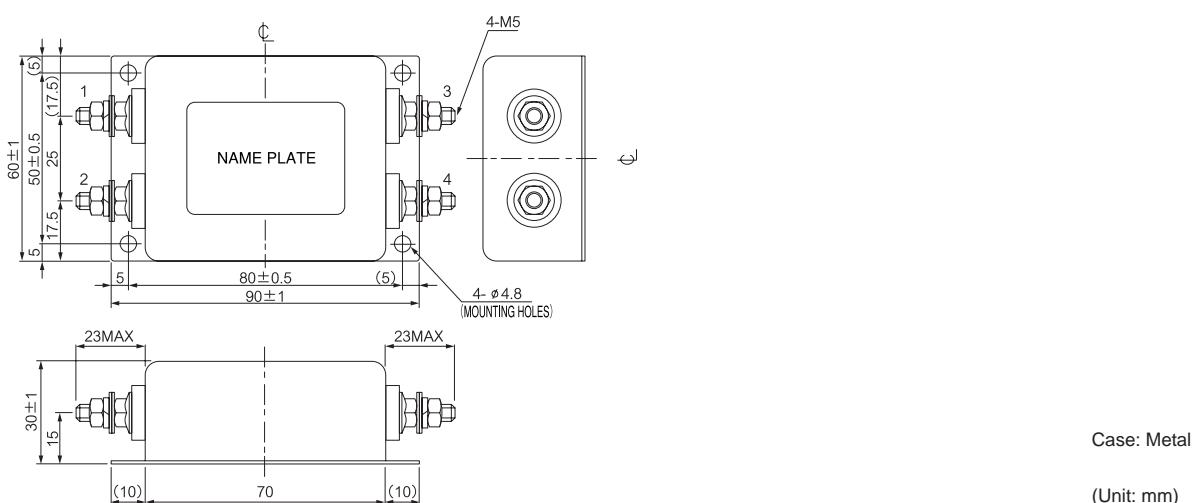
## ■ MBS4830



## ■ MBS4850



## ■ MBS4850



# MBS48-SERIES

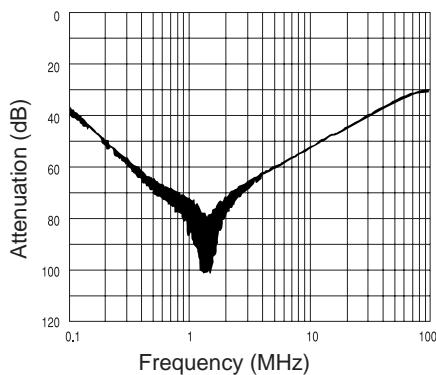
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## CHARACTERISTICS

### ■ Typical Insertion Loss

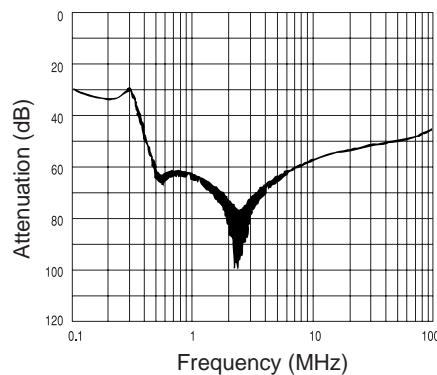
(1) Asymmetrical

■ MBS4830

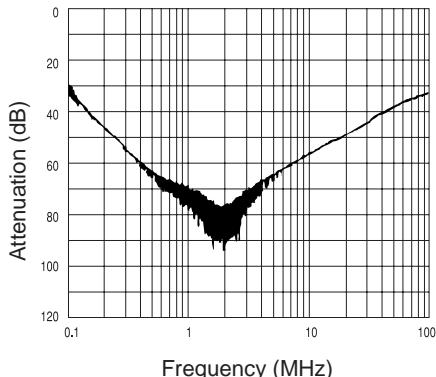


(2) Symmetrical

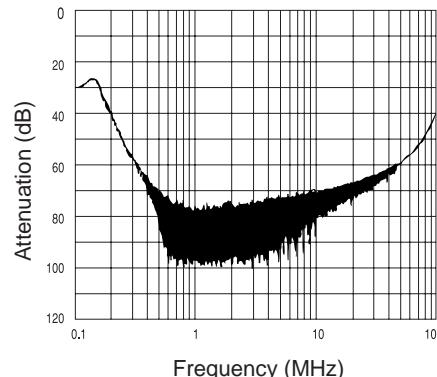
■ MBS4830



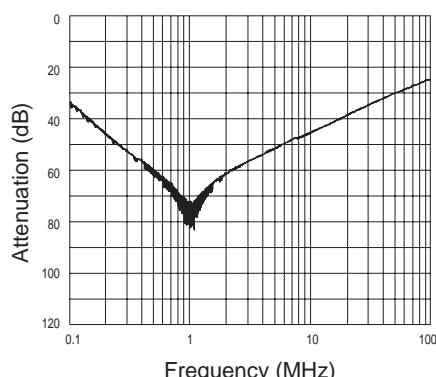
■ MBS4850



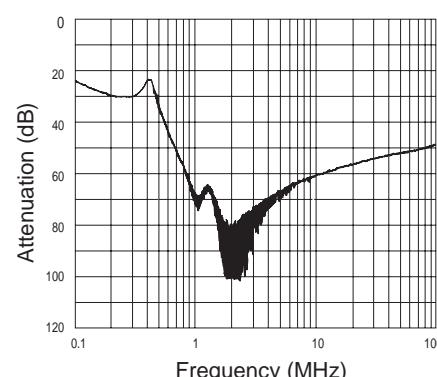
■ MBS4850



■ MBS4850S



■ MBS4850S



■ Attenuation characteristics  
MBS4850

