

# EMI/EMC FILTER

## TB6 SERIES(Standard - CE)



### FEATURES

- 3-Phase filters(Potted with epoxy resin)
- Remarkable attenuation for high voltage impulse
- Good shield effect by using metal case.
- Excellent filtering characteristics for both differential mode and common mode.
- Safety : CE

### APPLICATIONS

- Industrial equipment such as CNC machine, inverter, converter, telecommunication equipment, FA equipment, elevator, etc.

### SPECIFICATIONS

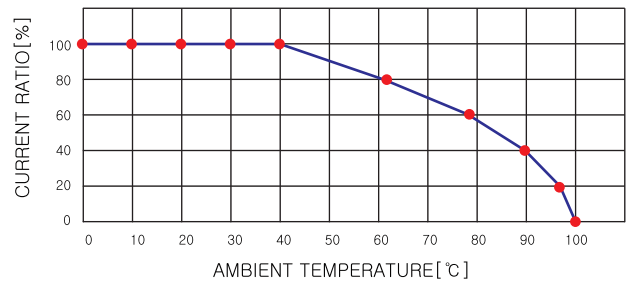
Model	Rated Voltage AC[V]	Rated Current[A]	Voltage Drop Max[V] (Each Phase)	Temperature Rise[°C]
TB6-2010AA3*	3Φ×250	10	1.0	60
TB6-2016AA3*		16		
TB6-2020AA3*		20		
TB6-2030AA3*		30		
TB6-2040AA3*		40		
TB6-2050AA3*		50		
TB6-2060AA3*		60		
TB6-2080AA3*		80		
TB6-2100AA3*		100		
TB6-2150AA3*		150		
TB6-2200AA3*		200		
TB6-2250BA3*		250		
TB6-2300BA3*		300		
TB6-2400BA3*		400		
TB6-2500BBA*		500		
TB6-2600BBA*		600		
TB6-2700BBA*		700		
TB6-2800BBA*	800			
TB6-4010AC3*	3Φ×440	10	1.0	60
TB6-4016AC3*		16		
TB6-4020AC3*		20		
TB6-4030AC3*		30		
TB6-4040AC3*		40		
TB6-4050AC3*		50		
TB6-4060AC3*		60		
TB6-4080AC3*		80		
TB6-4100AC3*		100		
TB6-4150AC6*		150		
TB6-4200AC6*		200		
TB6-4250BC6*		250		
TB6-4300BC6*		300		
TB6-4400BC6*		400		
TB6-4500BBA*		500		
TB6-4600BBA*		600		
TB6-4700BBA*		700		
TB6-4800BBA*	800			

- Many variations in X and Y capacitor value are available.  
For the details, consult with local agent.

● Note

- Test Voltage: 2250VDC for 1 minute, line to ground
- Insulation Resistance: 300MΩ minimum at 100VDC, line to ground
- Ambient Temperature Range: -25°C to +40°C
- Storage Temperature Range: -25°C to +100°C

Derating Curve



● Model Number Construction

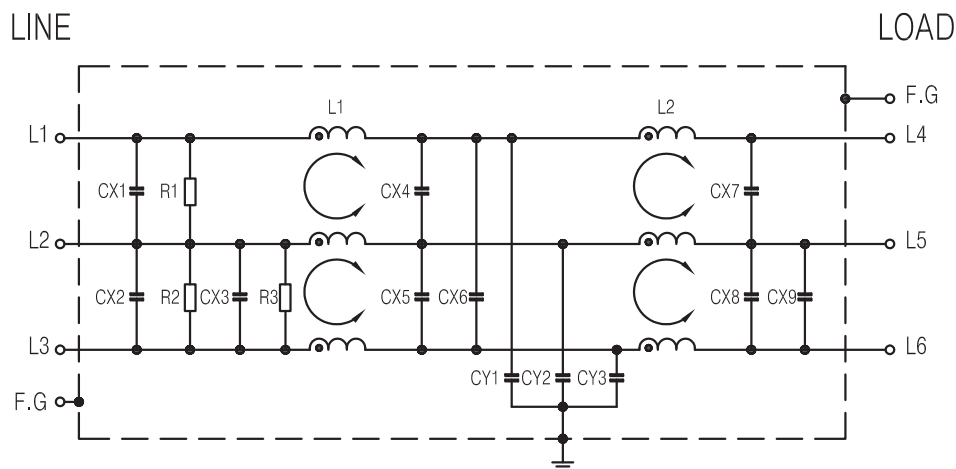
TB6 - \* \* \* \* \* \* \*

1            2            3            4            5            6            7

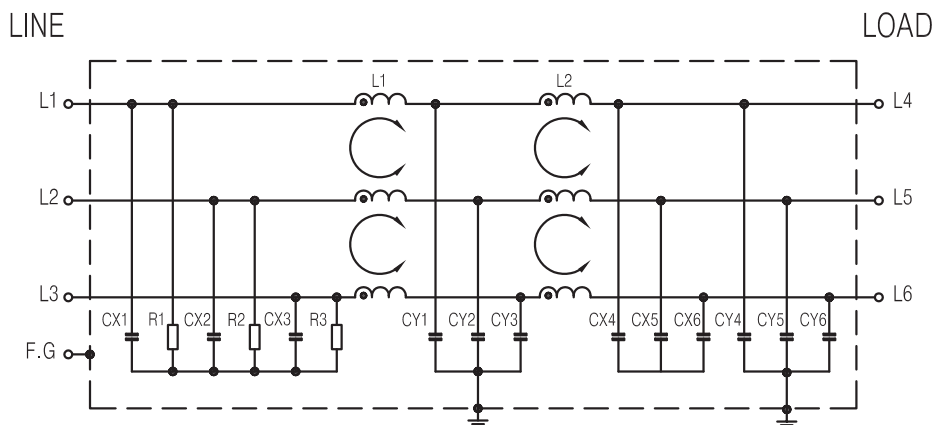
1	2	3	4	5	6	7
<b>Series Name</b>	<b>Rated Voltage</b> 2: 250 VAC 4: 440 VAC	<b>Rated Current</b> 010: 10A 100: 100A 500: 500A	<b>The number of core(s)</b> A: 1EA B: 2EA	<b>Circuit Type</b> A,B,C Refer to the below	<b>Xc Value</b> 3: 3.3uF 6: 6.6uF A: 19.8uF	<b>Yc Value</b> 1: 0.1uF 2: 0.22uF

● Circuit Diagram

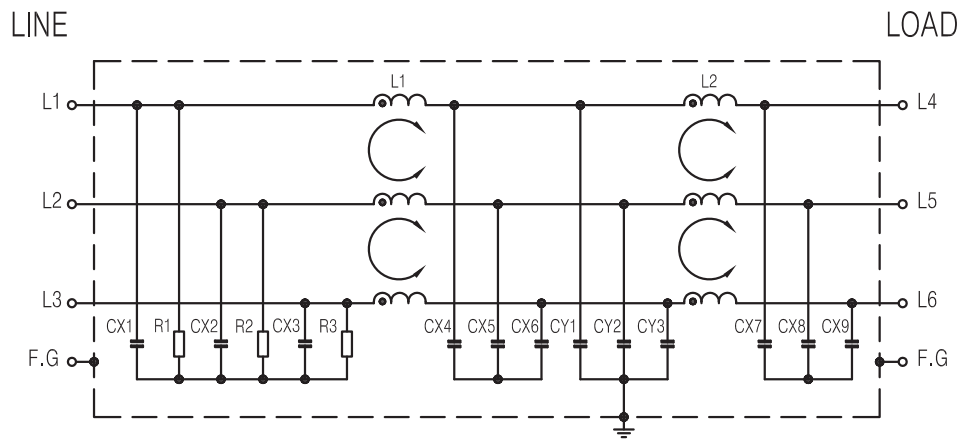
Circuit Type A



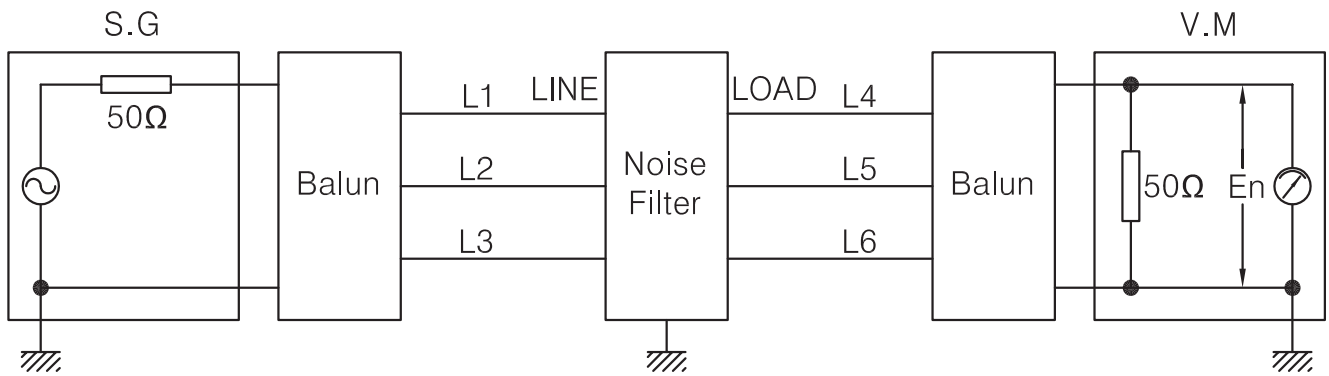
Circuit Type B



### Circuit Type C



### ● Attenuation Measuring Method



OSC Level: 0 dB

Insertion loss =  $-20\log(E1/E2)$  [dB]

E1: Level with the noise filter in the circuit.

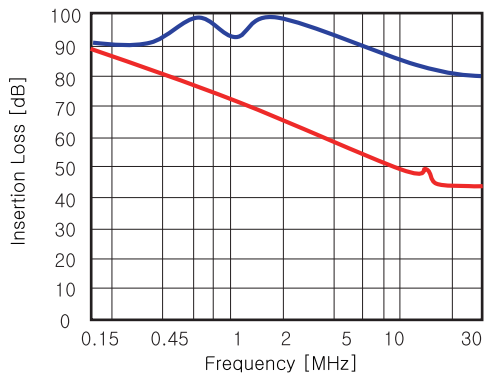
E2: Level without the noise filter in the circuit.

• Attenuation Characteristics

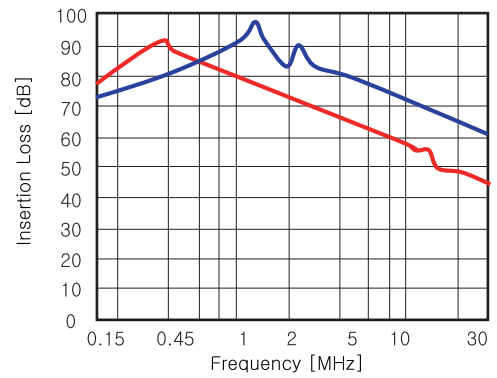
COMMON MODE( — )

NORMAL MODE( — )

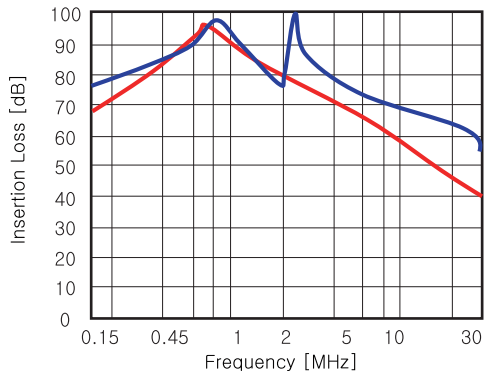
1. TB6-2010AA32



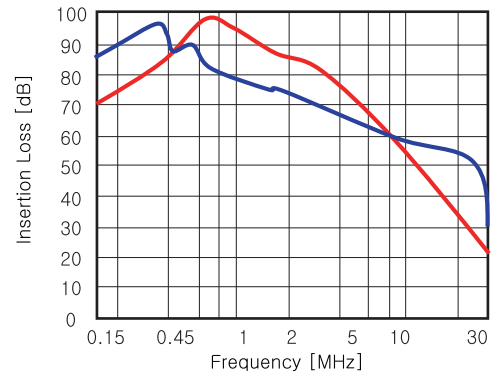
2. TB6-2020AA31



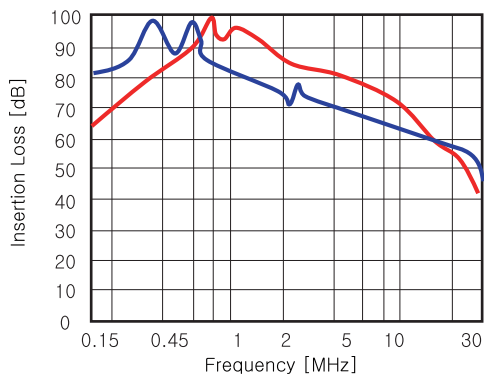
3. TB6-2040AA31



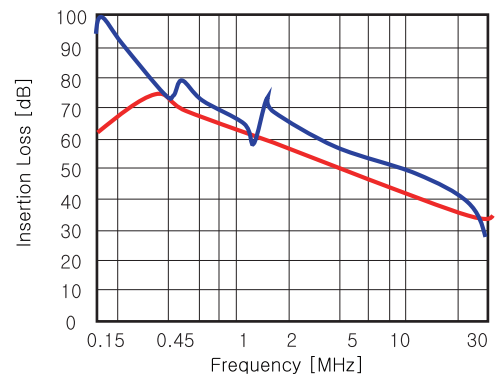
4. TB6-2060AA32



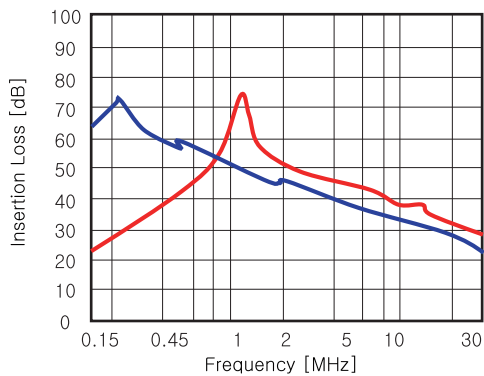
5. TB6-2100AA31



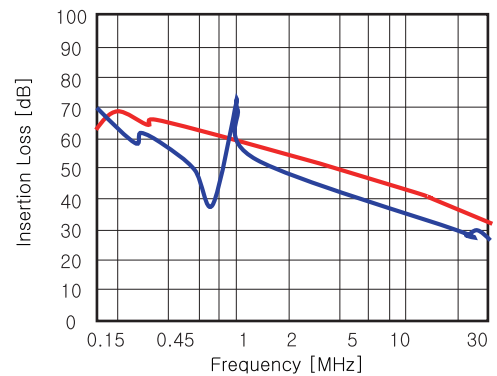
6. TB6-2200AA32



7. TB6-2300BA31



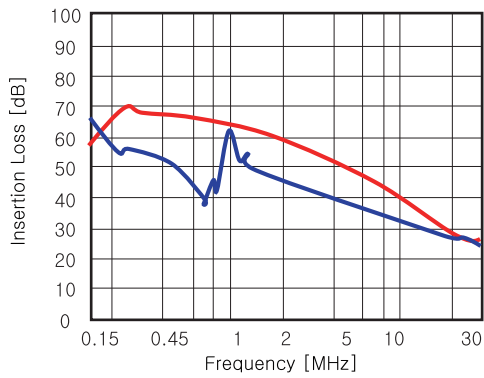
8. TB6-2500BBA2



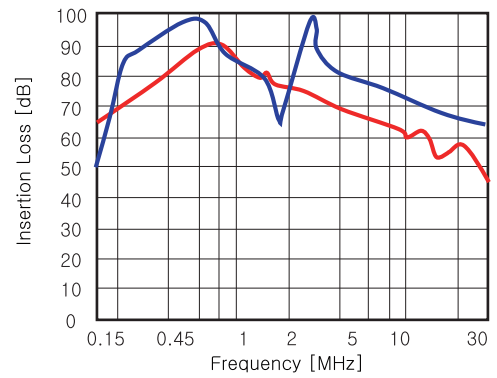
COMMON MODE( — )

NORMAL MODE( — )

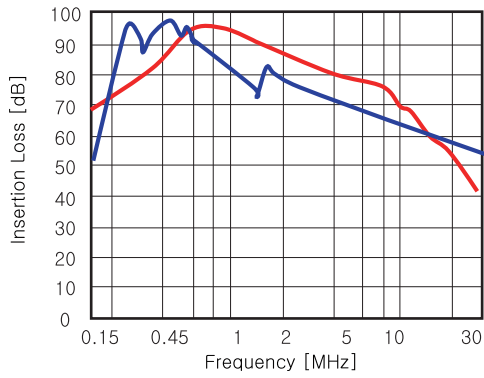
9. TB6-2700BBA2



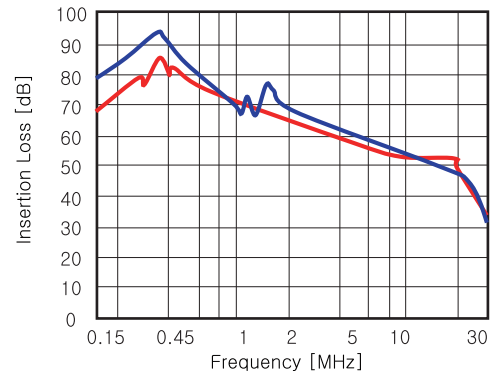
10. TB6-4040AC31



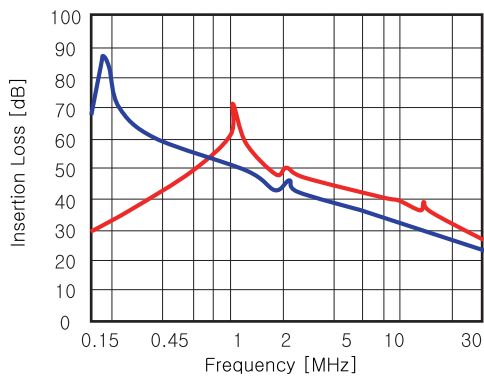
11. TB6-4100AC32



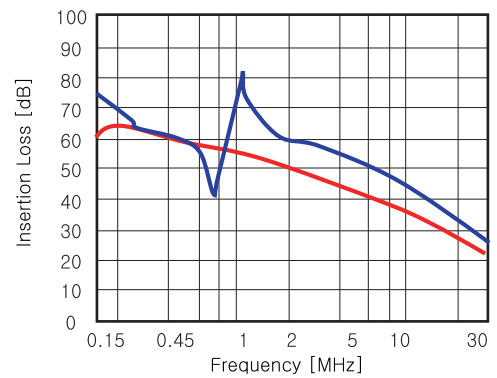
12. TB6-4200AC62



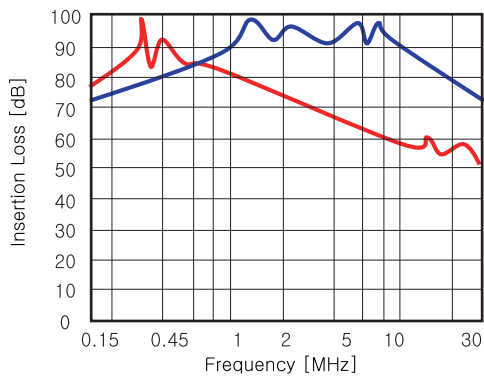
13. TB6-4300BC61



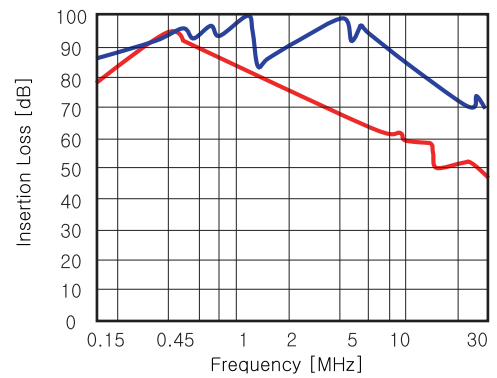
14. TB6-4500BBA2



15. TB6-2016AA31



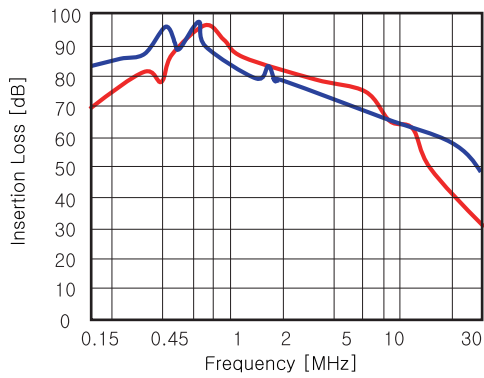
16. TB6-2030AA32



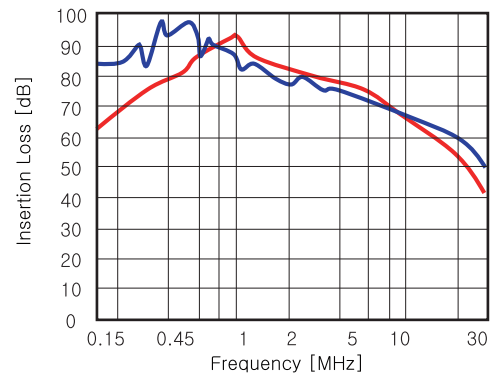
COMMON MODE( — )

NORMAL MODE( — )

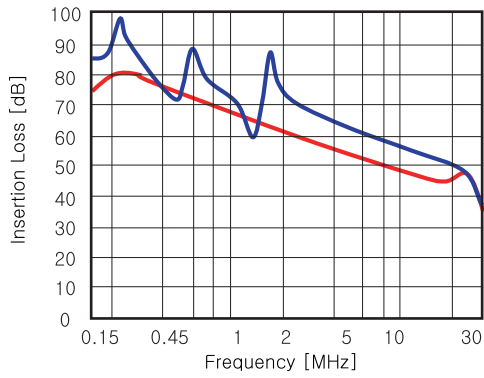
17. TB6-2050AA32



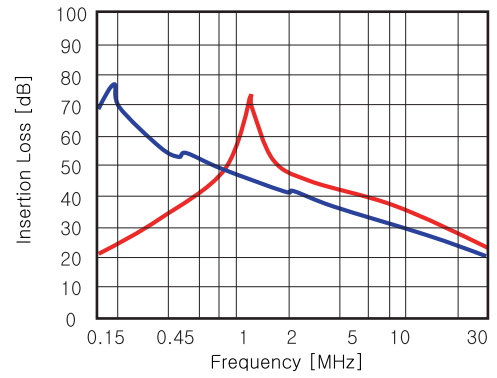
18. TB6-2080AA31



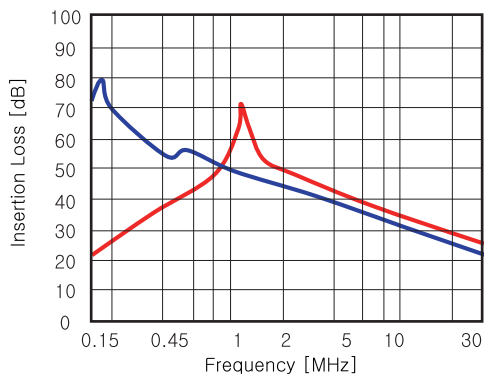
19. TB6-2150AA32



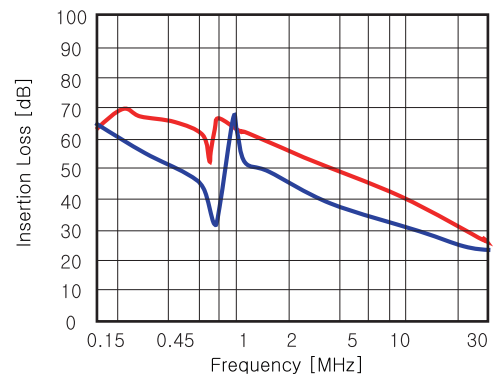
20. TB6-2250BA31



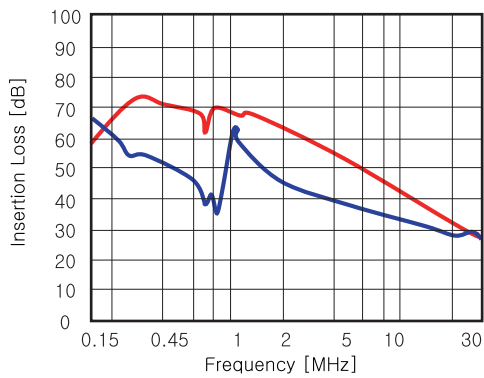
21. TB6-2400BA31



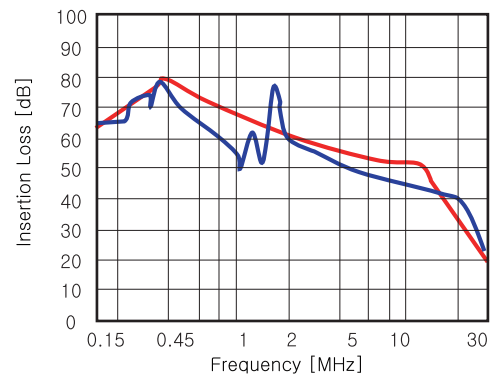
22. TB6-2600BBA2



23. TB6-2800BBA2



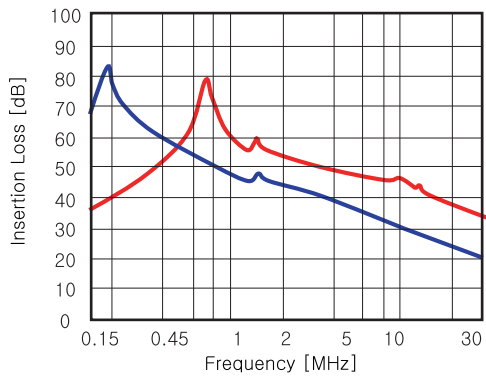
24. TB6-4150AC62



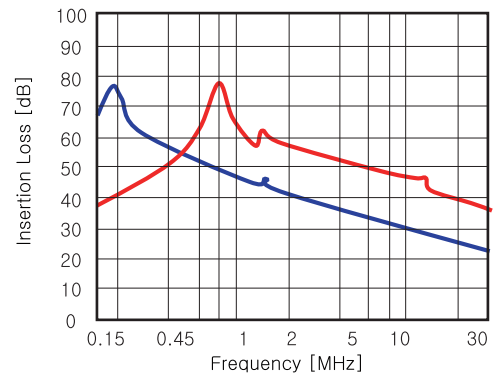
COMMON MODE( — )

NORMAL MODE( — )

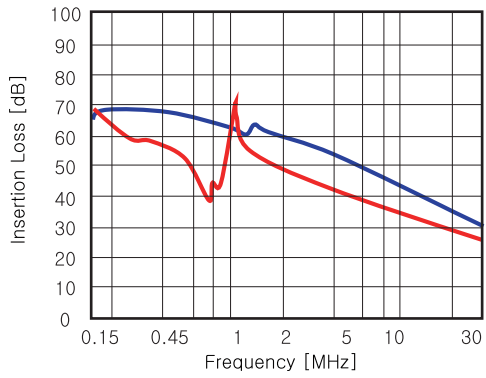
25. TB6-4250BC62



26. TB6-4400BC62

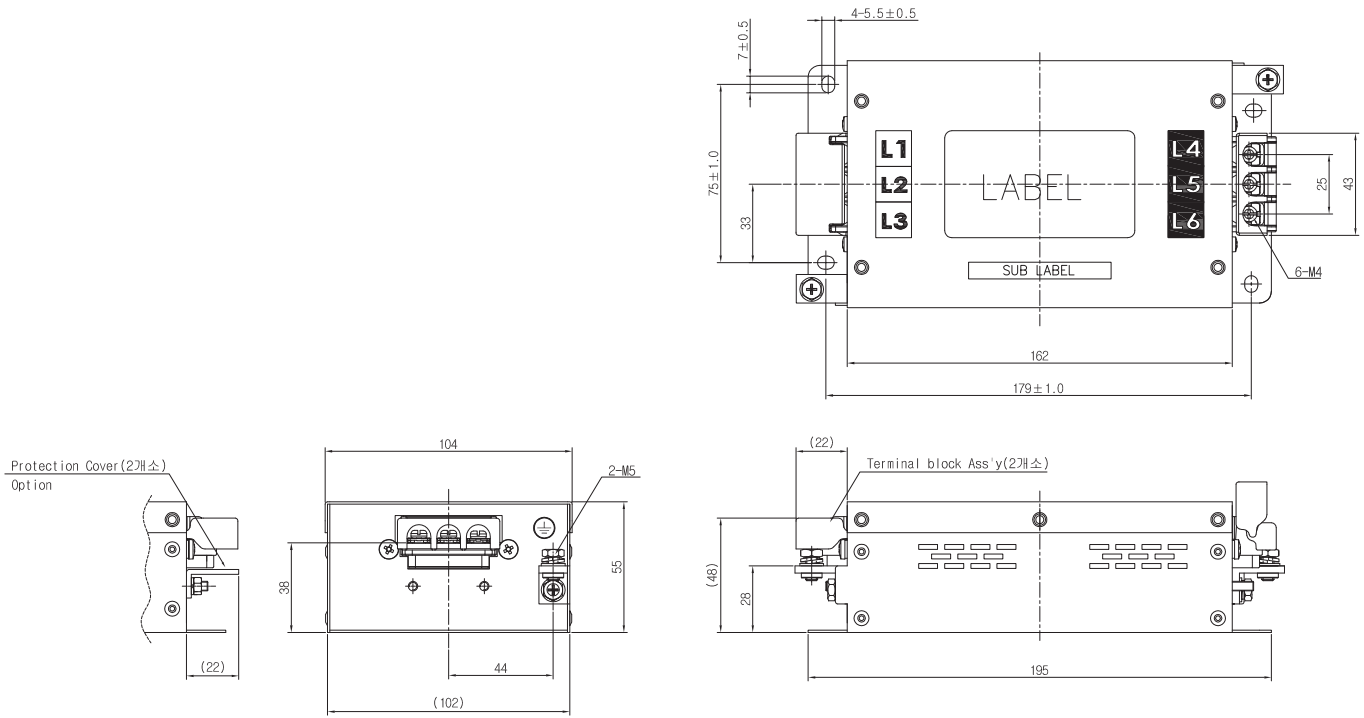


27. TB6-4600BBA2

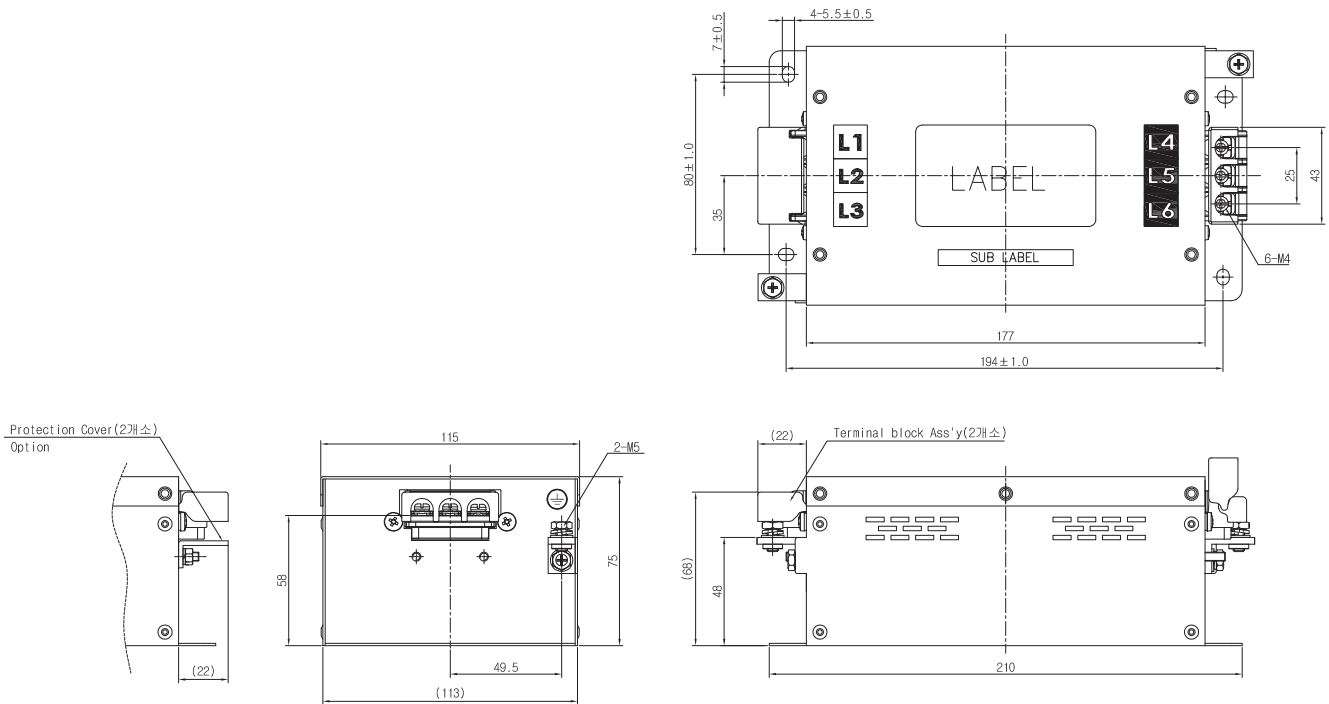


## ● Shapes and Dimensions

TB6-2010/2016/4010/4016\*\*\*\*

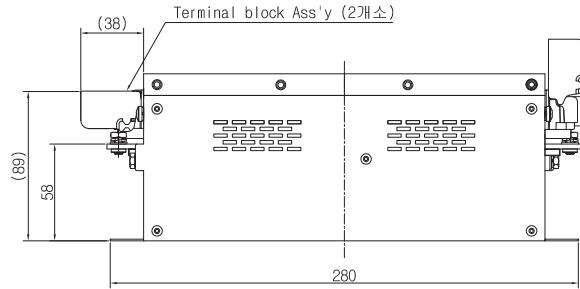
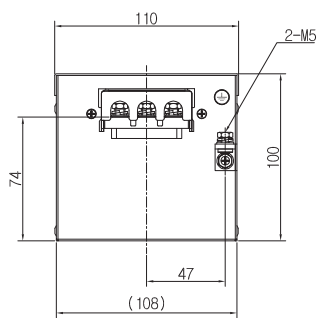
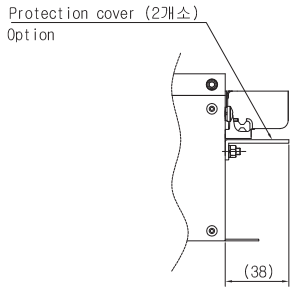
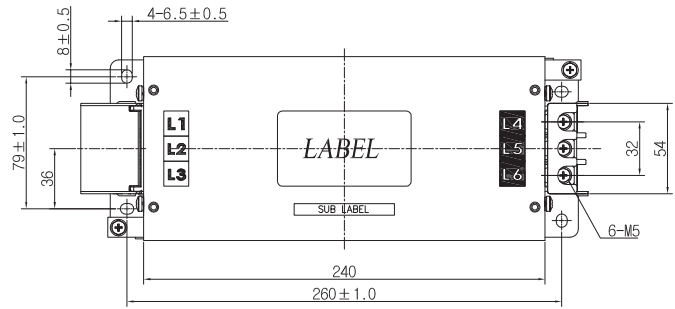


TB6-2020/2030/2040/4020/4030/4040\*\*\*\*

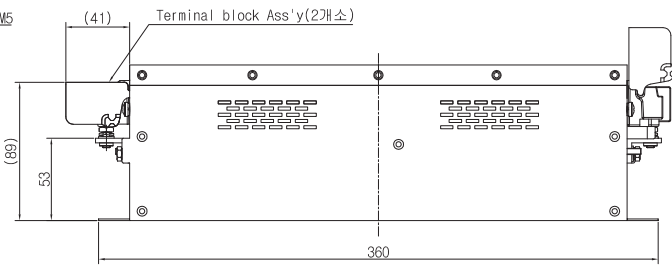
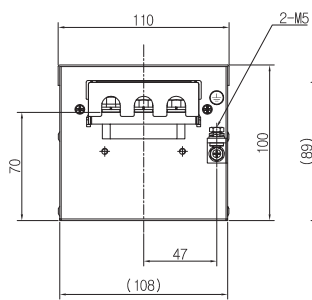
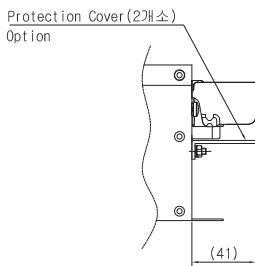
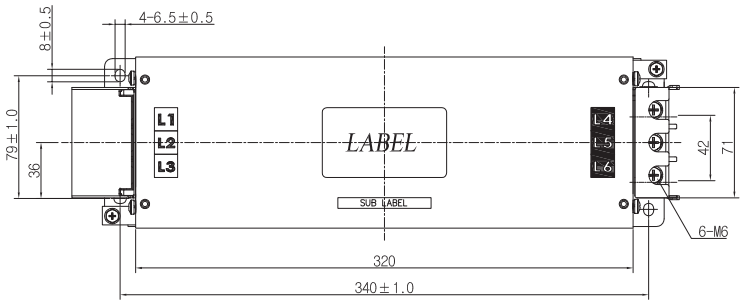




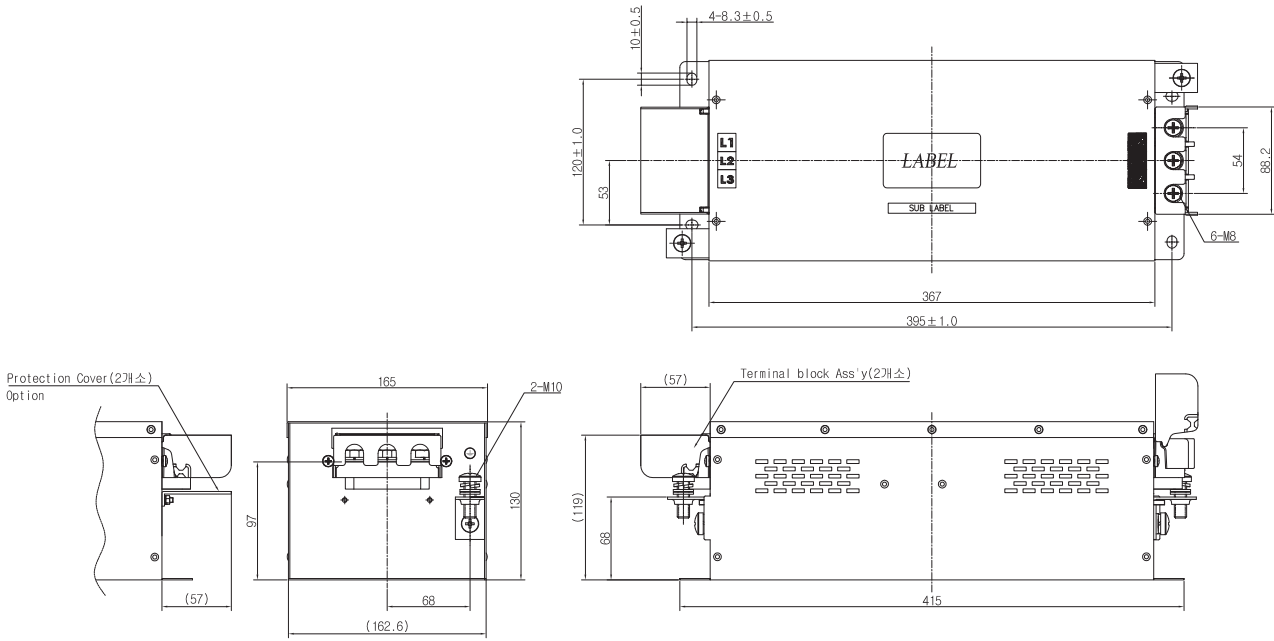
TB6-2050/2060/4050/4060\*\*\*\*



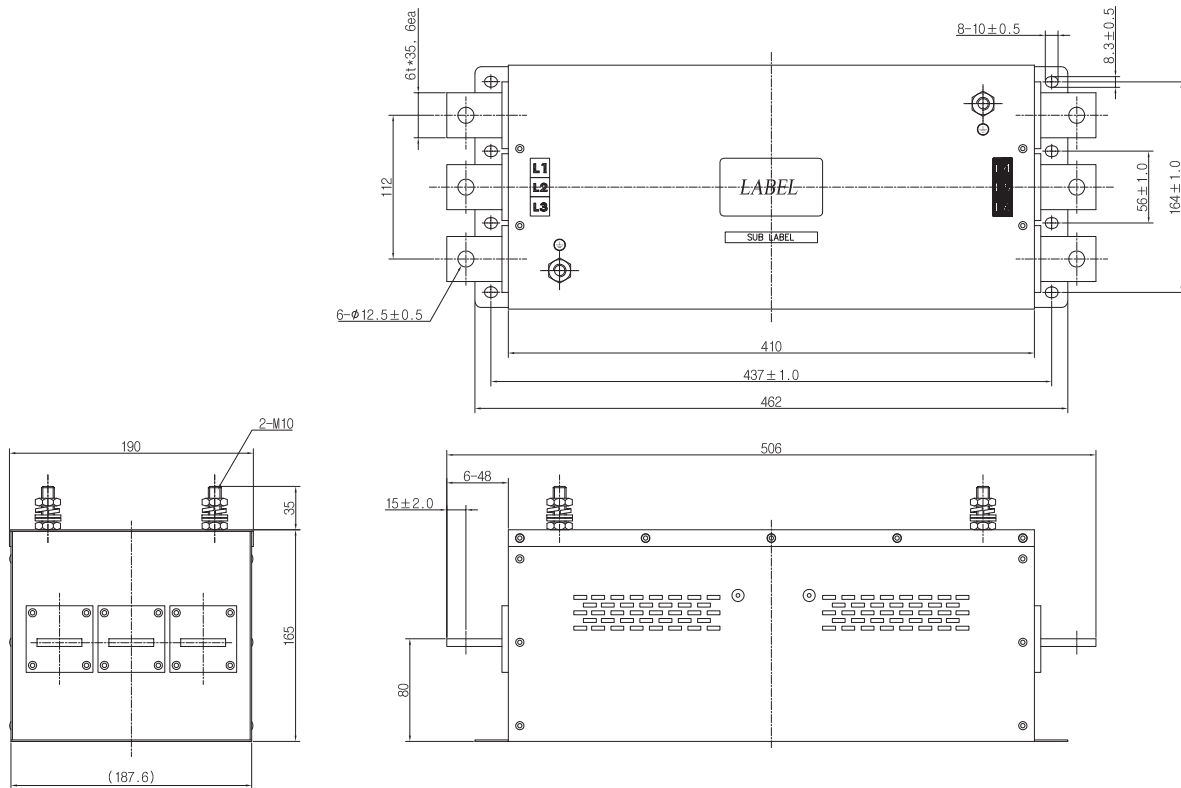
TB6-2080/2100/4080/4100\*\*\*\*



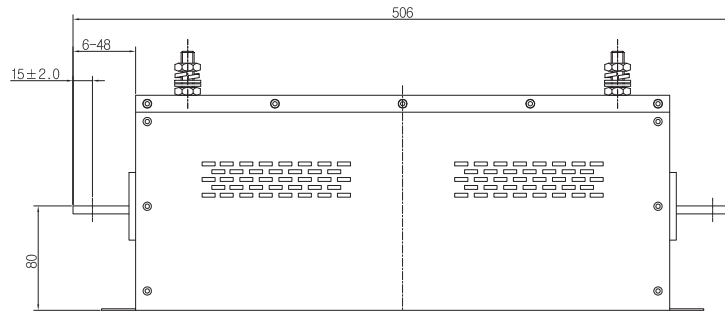
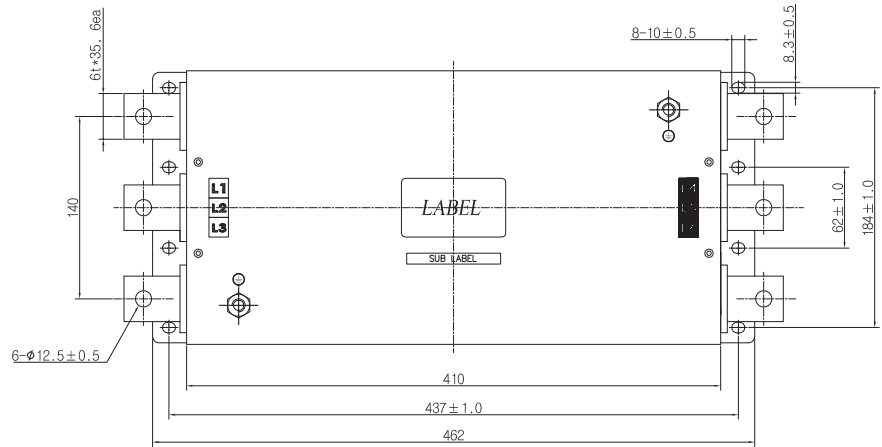
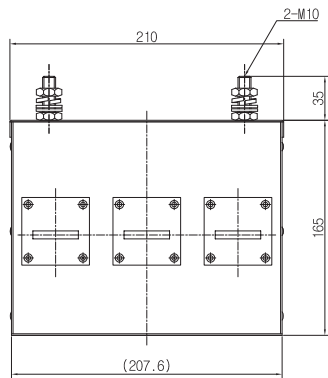
TB6-2150/2200/4150/4200\*\*\*\*



TB6-2250/2300/2400/4250/4300/4400\*\*\*\*



TB6-2500/2600/4500/4600\*\*\*\*



TB6-2700/2800/4700/4800\*\*\*\*

