

# EMI/EMC FILTER

## TB6-2,5 G/H SERIES



### Features

- 3-Phase filters(Potted with epoxy resin)
- Two types of remarkable attenuation for high voltage impulse
- : High attenuation type, General attenuation type
- Good shield effect by using metal case
- Excellent filtering characteristics for both differential mode and common mode
- Safety: SEMKO+ENEC, CE, UL, KC(Only some of models)

### Applications

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

### Specifications

Model	Rated Voltage AC	Rated Current	Voltage Drop Max (Each Phase)	Temperature Rise
TB6-2010C3*G/H	3Φ×250V	10A	1.0 V	60℃  
TB6-2016C3*G/H		16A		
TB6-2020C3*G/H		20A		
TB6-2030C3*G/H		30A		
TB6-2040C3*G/H		40A		
TB6-2060C3*G/H		60A		
TB6-2080C3*G/H		80A		
TB6-2100C6*G/H		100A		
TB6-2150C6*G/H		150A		
TB6-2200C9*G/H		200A		
TB6-5010D3*G/H	3Φ×500V	10A		
TB6-5016D3*G/H		16A		
TB6-5020D3*G/H		20A		
TB6-5030D3*G/H		30A		
TB6-5040D3*G/H		40A		
TB6-5060D3*G/H		60A		
TB6-5080D3*G/H		80A		
TB6-5100D6*G/H		100A		
TB6-5150D6*G/H		150A		
TB6-5200D9*G/H		200A		

※ Many variations in X and Y capacitor value are available with approvals. 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℃ to +45℃

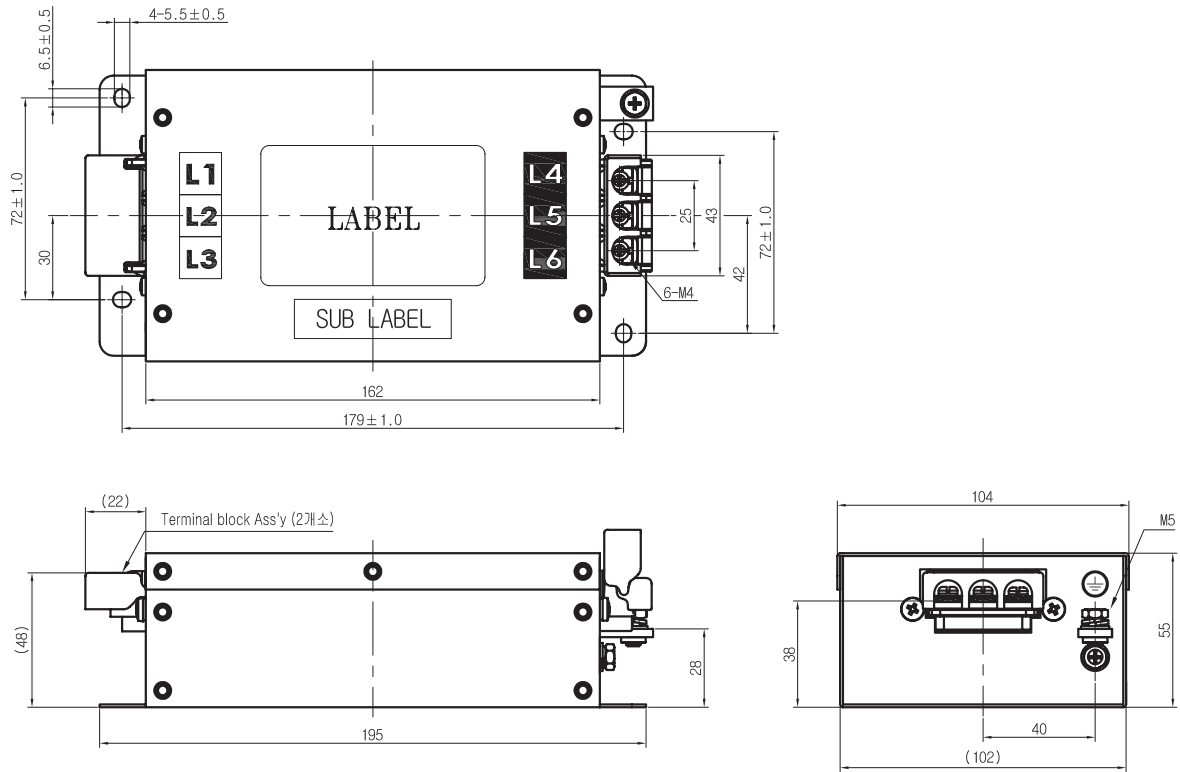
Storage Temperature Range: -25℃ to +105℃

### Model Number Construction

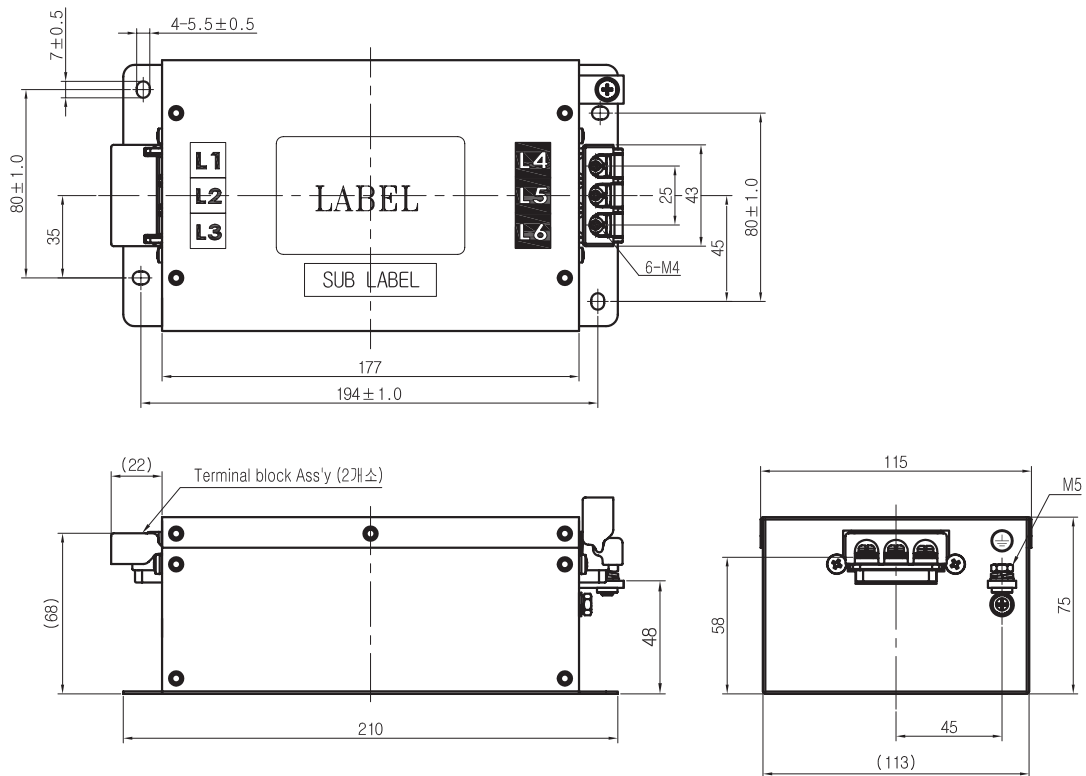
TB6	*	*	*	*	*	*
Series name : 3 Phase	Rated Voltage 2 : 250 VAC 5 : 500 VAC	Rated Current 10 = 10A 16 = 16A 20 = 20A 30 = 30A 60 = 60A 80 = 80A 100 = 100A 150 = 150A 200 = 200A	Circuit Type C,D Refer to the below	Xc Value 3 : 3.3uF 6 : 6.6uF 9 : 9.9uF	Yc Value C : 0.1uF D : 0.22uF	Characteristic Option G : General Attenuation H : High Attenuation

# Shapes and Dimensions

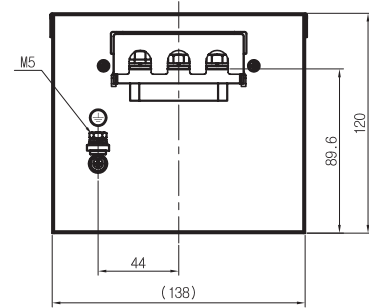
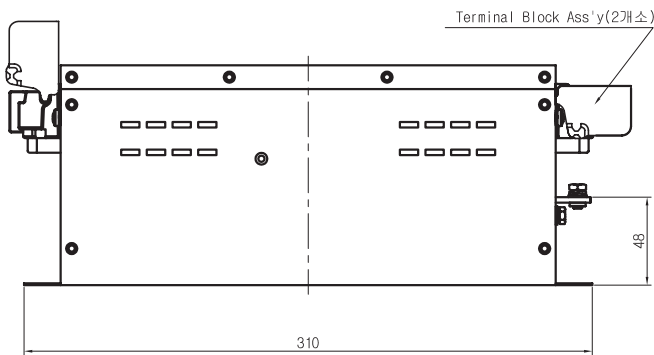
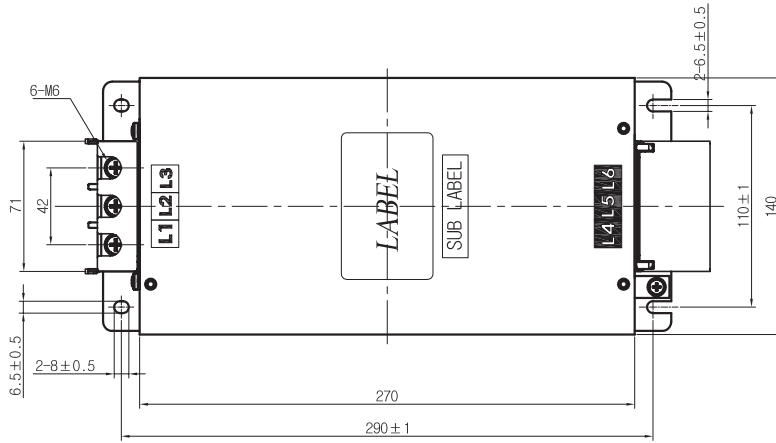
TB6-2010\*\*\*G/H, TB6-2016\*\*\*G/H, TB6-5010\*\*\*G/H, TB6-5016\*\*\*G/H



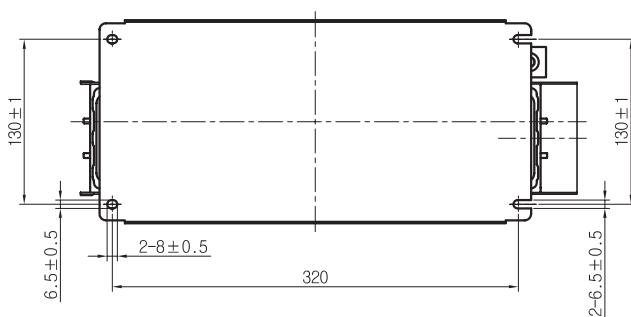
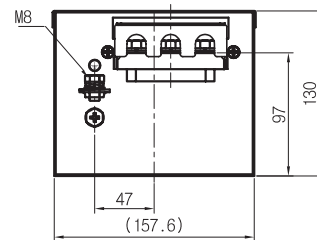
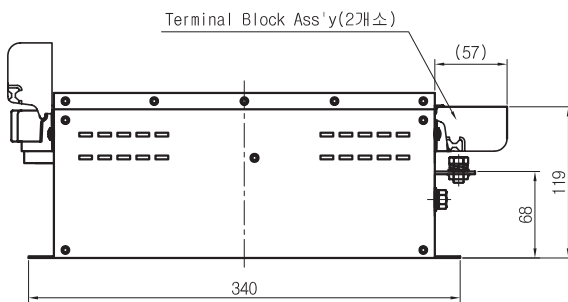
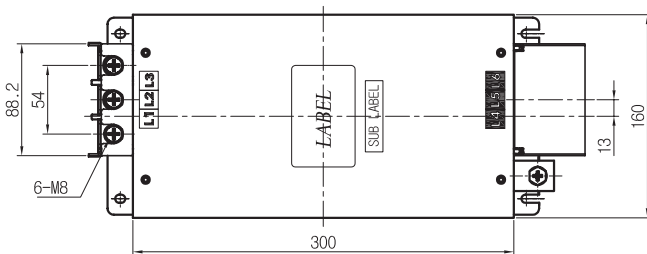
TB6-2020\*\*\*G/H, TB6-2030\*\*\*G/H, TB6-2040\*\*\*G/H, TB6-5020\*\*\*G/H, TB6-5030\*\*\*G/H, TB6-5040\*\*\*G/H



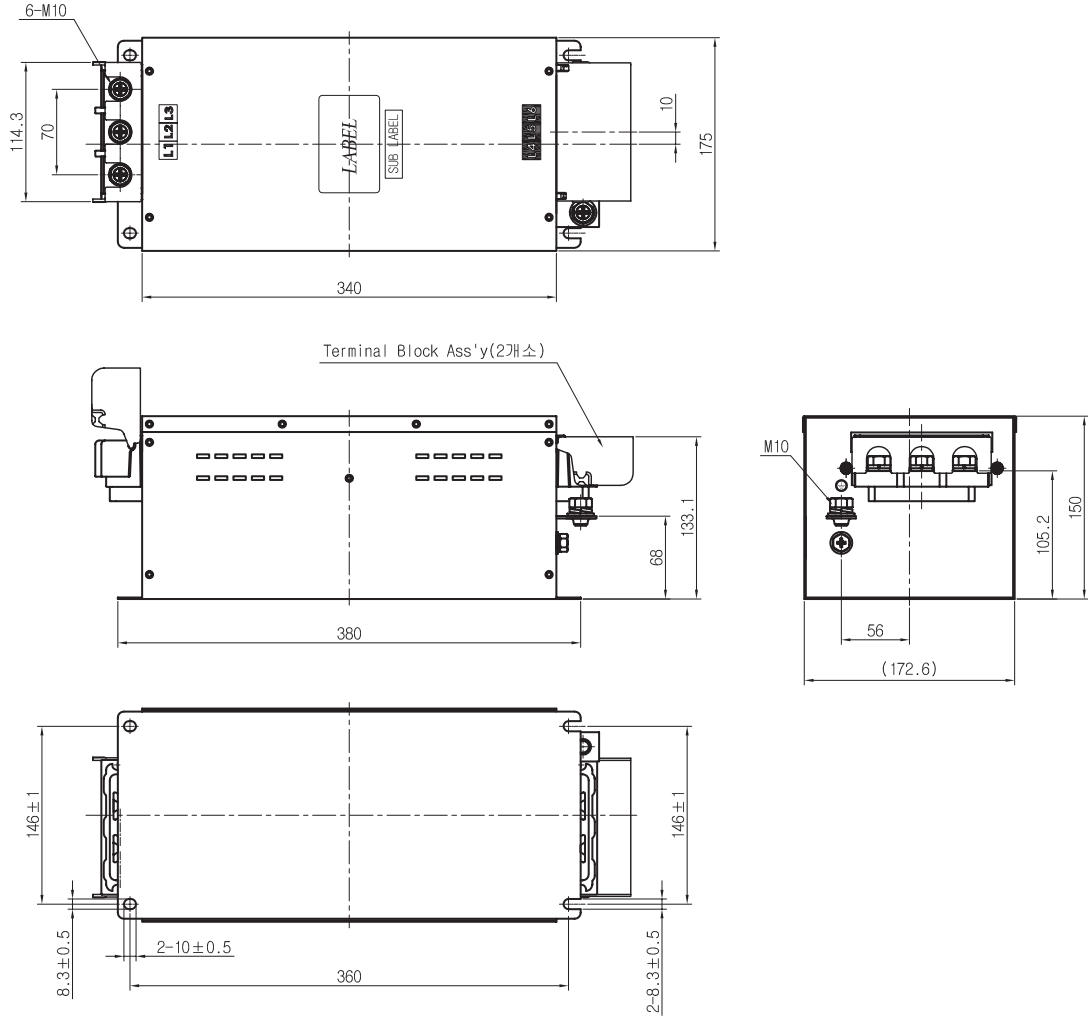
TB6-2060\*\*\*G/H, TB6-2080\*\*\*G/H, TB6-5060\*\*\*G/H, TB6-5080\*\*\*G/H



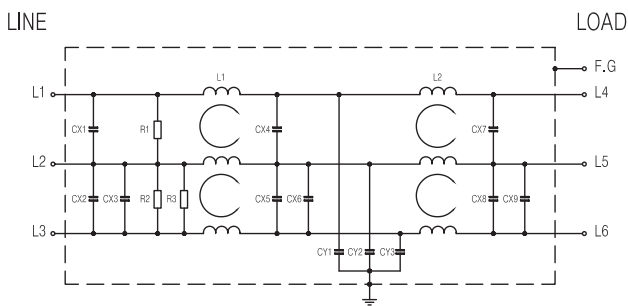
TB6-2100\*\*\*G/H, TB6-2150\*\*\*G/H, TB6-5100\*\*\*G/H, TB6-5150\*\*\*G/H



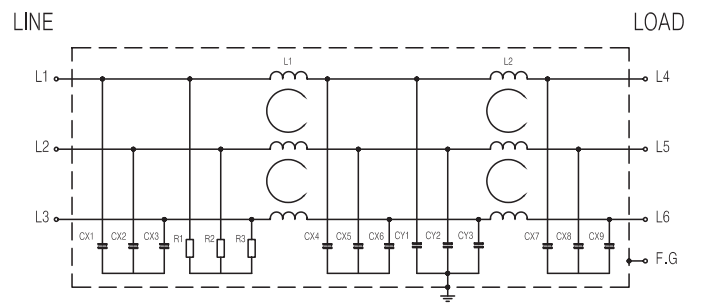
TB6-2200\*\*\*G/H, TB6-5200\*\*\*G/H



## Circuit Diagram

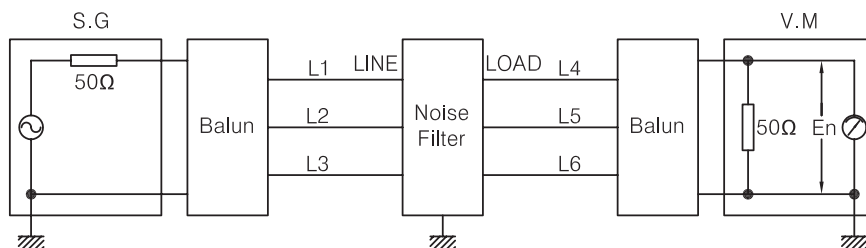


Circuit Type C



Circuit Type D

## Attenuation Measuring Method



OSC Level: 0 dB

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

E1: Level with the noise filter in the circuit.

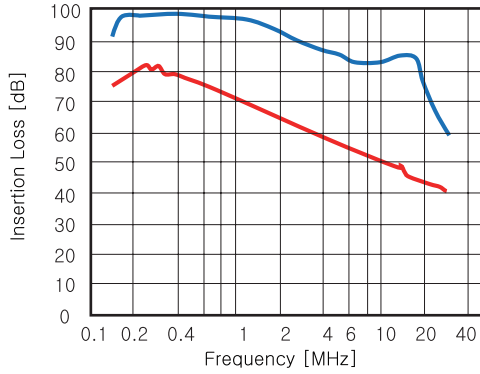
E2: Level without the noise filter in the circuit.

# Attenuation Characteristics

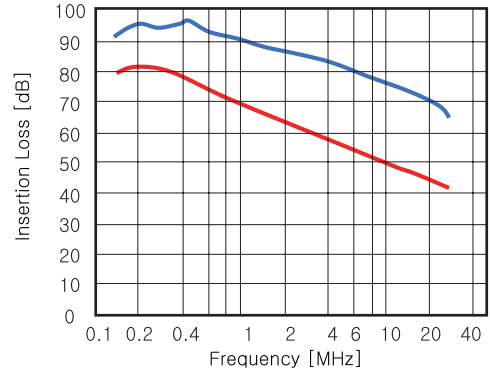
Common mode ( — )

Normal mode ( — )

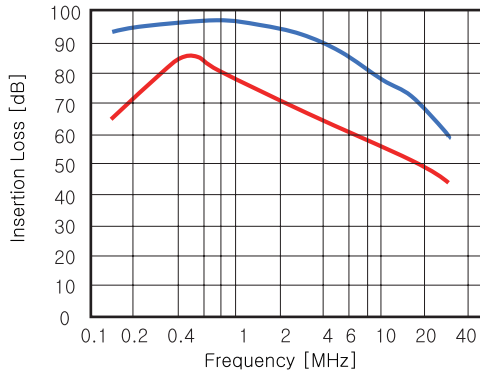
1. TB6-2010C3CG



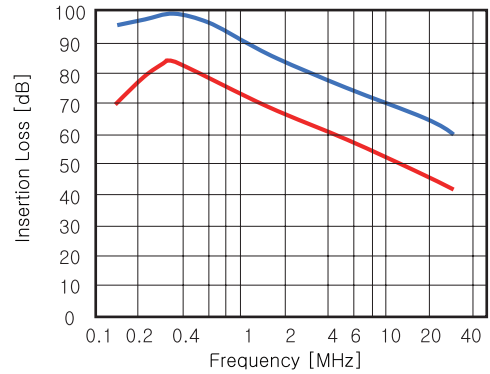
2. TB6-2010C3DG



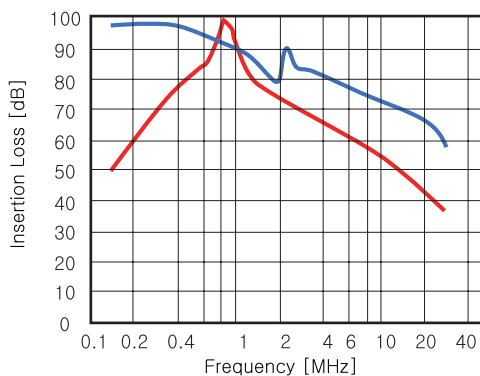
3. TB6-2016C3CG



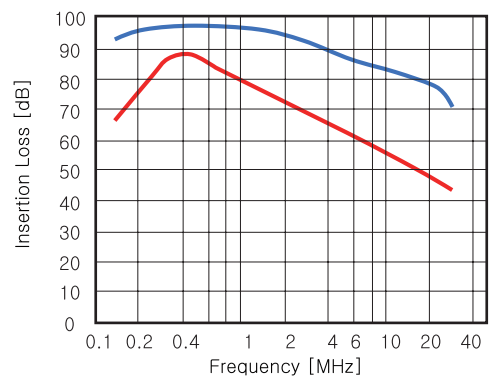
4. TB6-2016C3DG



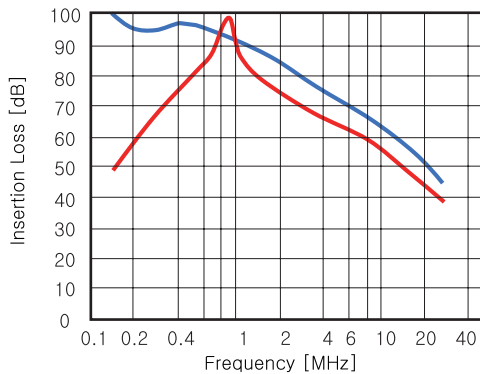
5. TB6-2020C3CG



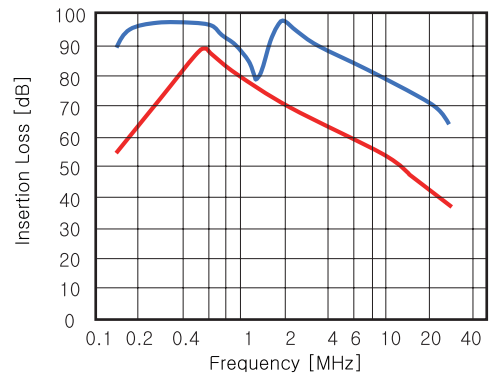
6. TB6-2020C3DG



7. TB6-2030C3CG



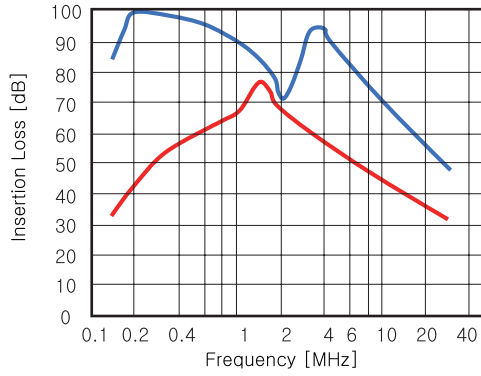
8. TB6-2030C3DG



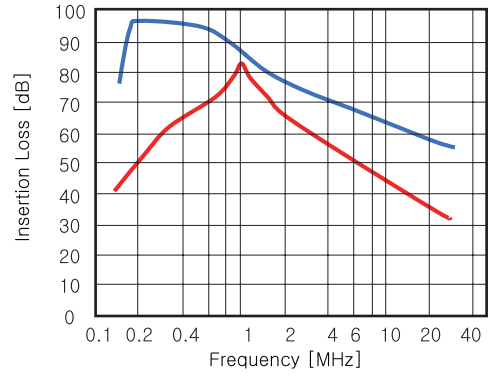
Common mode ( — )

Normal mode ( — )

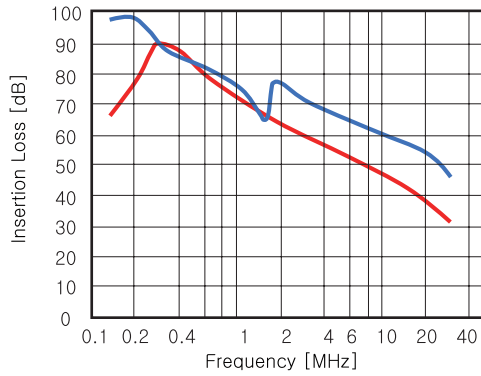
9. TB6-2040C3CG



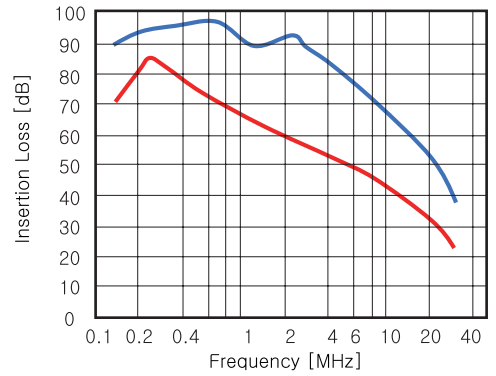
10. TB6-2040C3DG



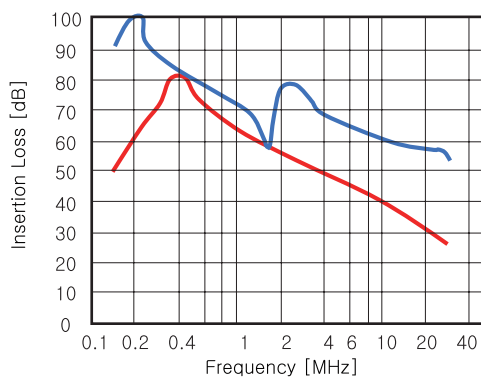
11. TB6-2060C3CG



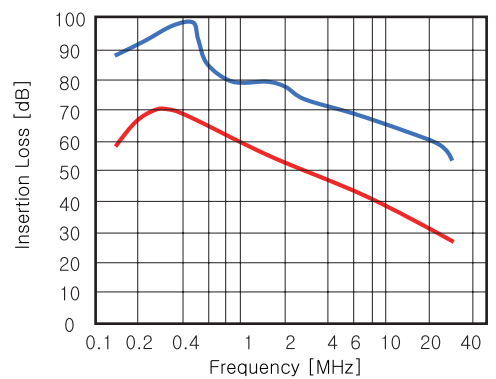
12. TB6-2060C3DG



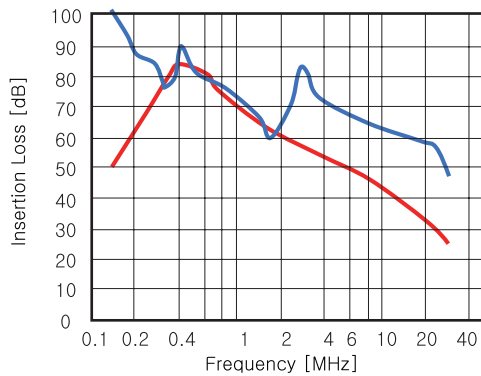
13. TB6-2080C3CG



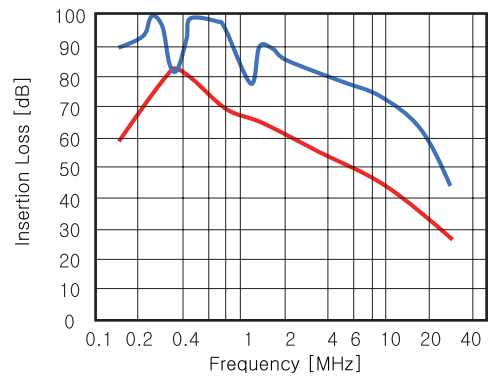
14. TB6-2080C3DG



15. TB6-2100C6CG



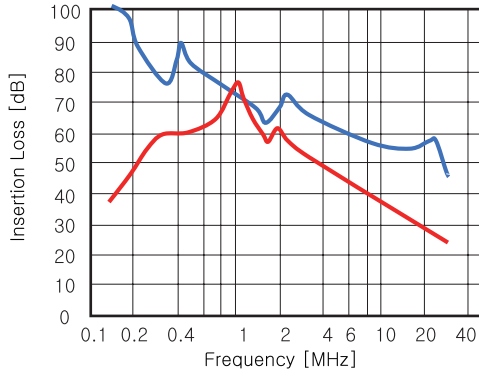
16. TB6-2100C6DG



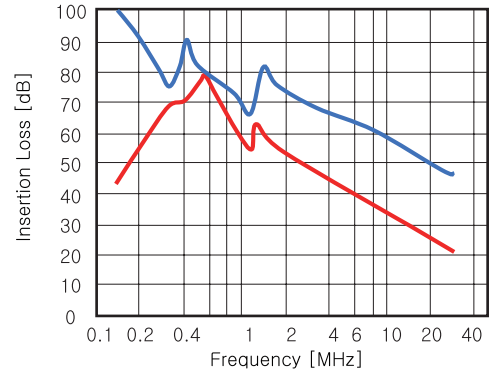
Common mode ( — )

Normal mode ( — )

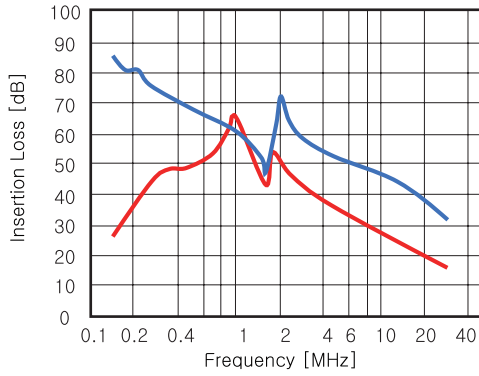
17. TB6-2150C6CG



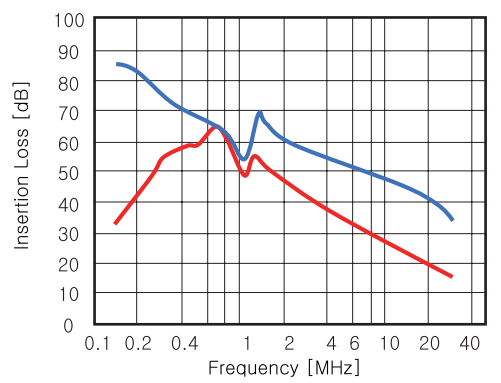
18. TB6-2150C6DG



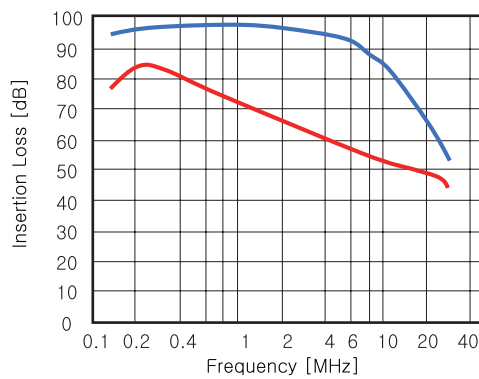
19. TB6-2200C9CG



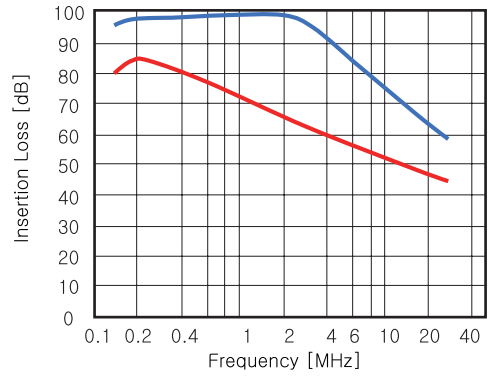
20. TB6-2200C9DG



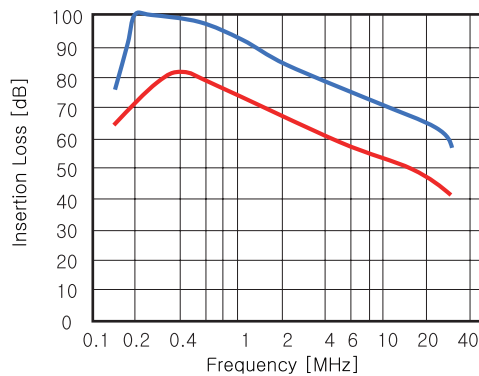
21. TB6-5010D3CG



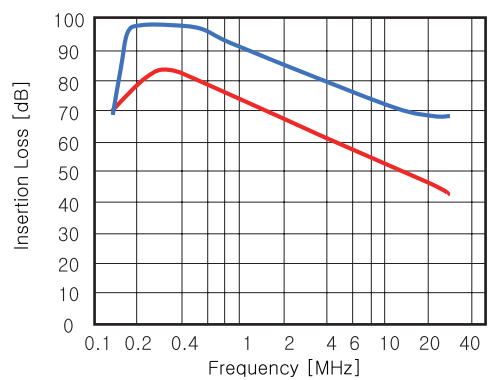
22. TB6-5010D3DG



23. TB6-5016D3CG



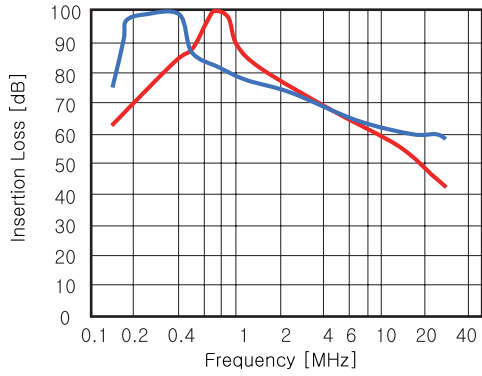
24. TB6-5016D3DG



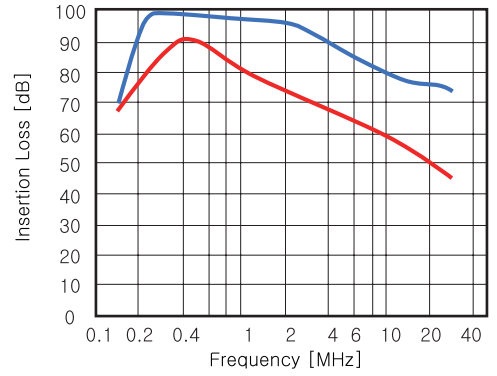
Common mode ( — )

Normal mode ( — )

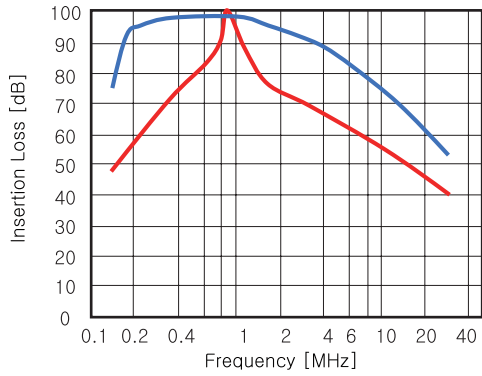
25. TB6-5020D3CG



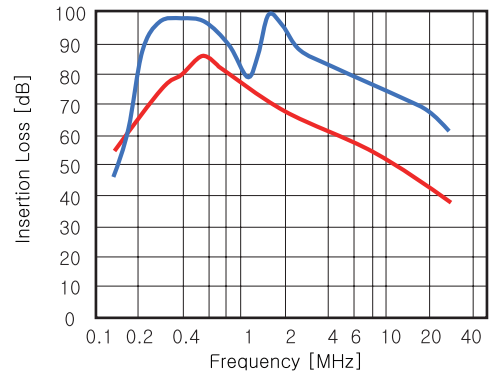
26. TB6-5020D3DG



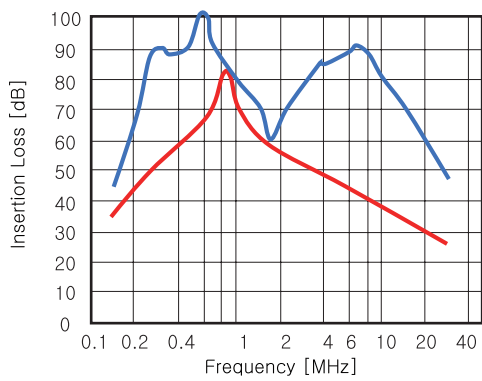
27. TB6-5030D3CG



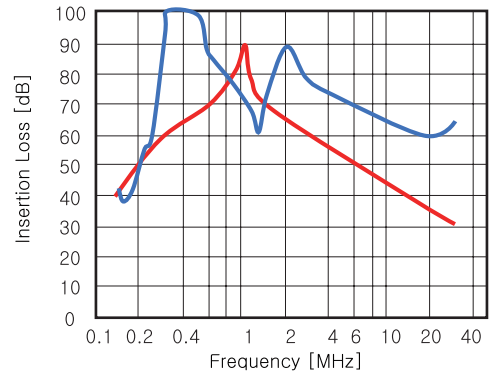
28. TB6-5030D3DG



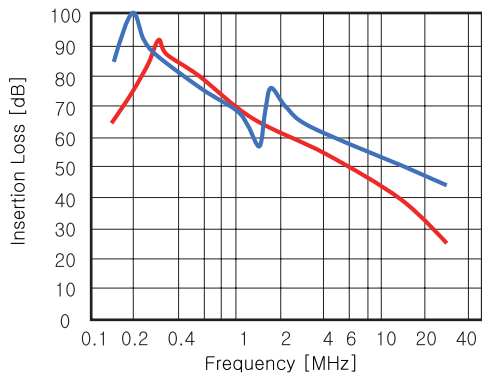
29. TB6-5040D3CG



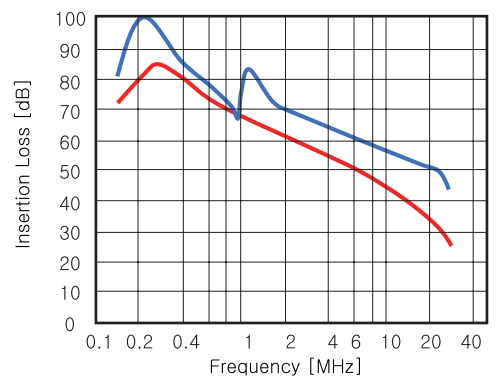
30. TB6-5040D3DG



31. TB6-5060D3CG



32. TB6-5060D3DG

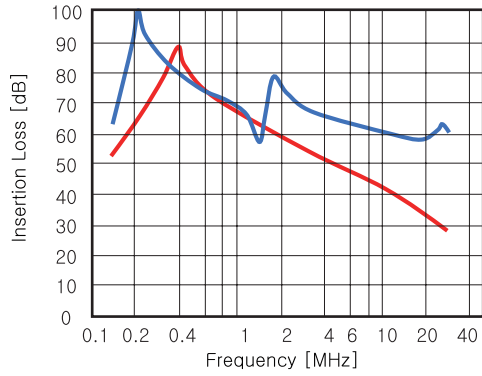




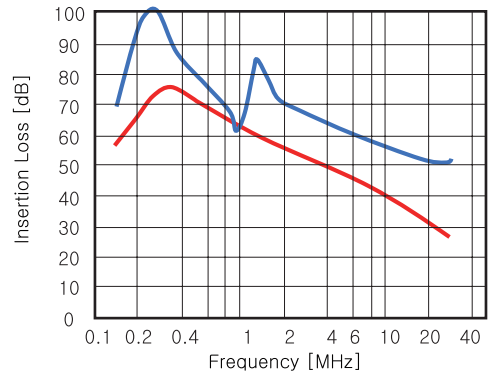
Common mode ( — )

Normal mode ( — )

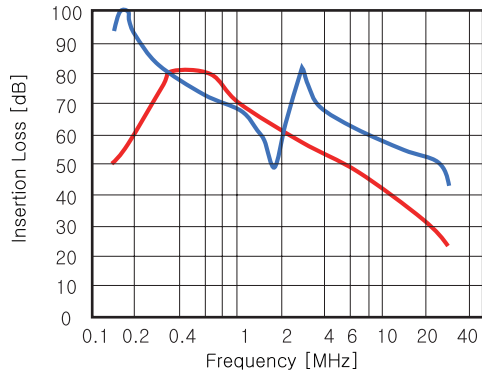
33. TB6-5080D3CG



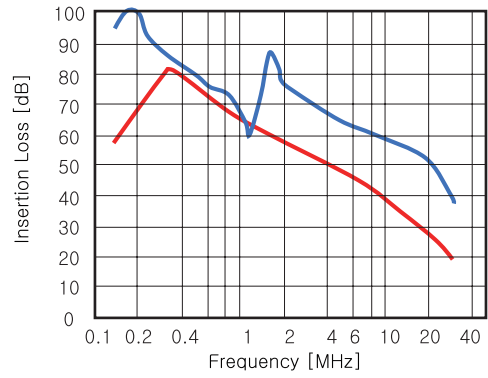
34. TB6-5080D3DG



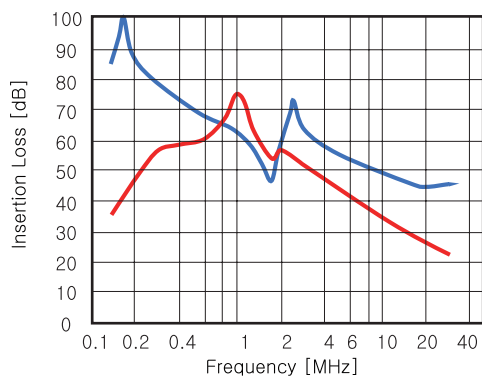
35. TB6-5100D6CG



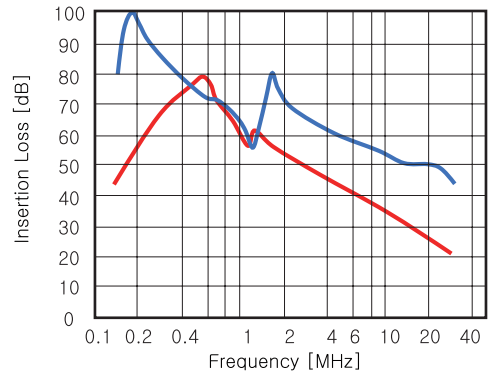
36. TB6-5100D6DG



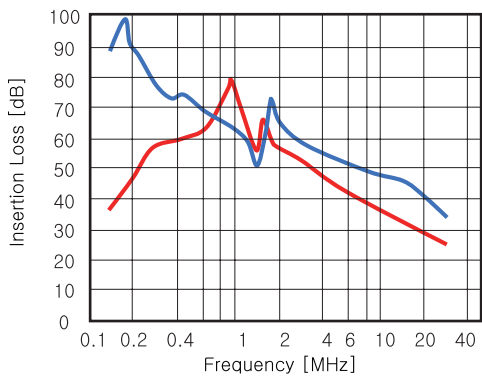
37. TB6-5150D6CG



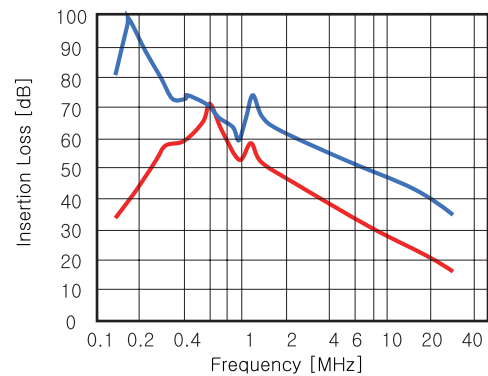
38. TB6-5150D6DG



39. TB6-5200D9CG



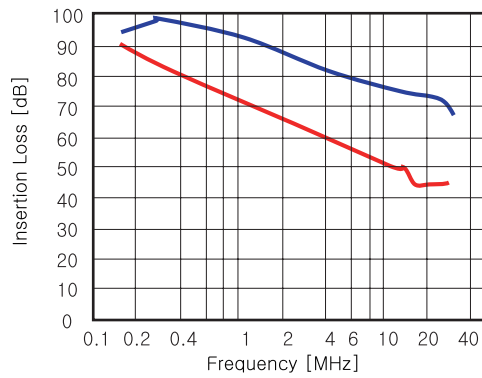
40. TB6-5200D9DG



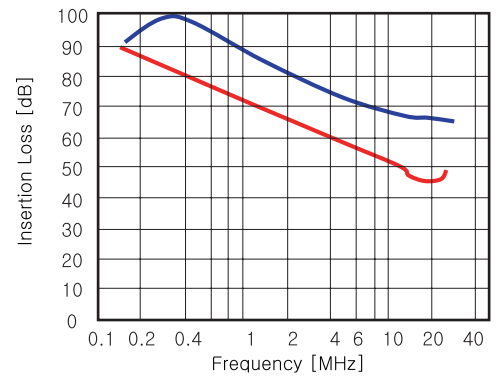
Common mode ( — )

Normal mode ( — )

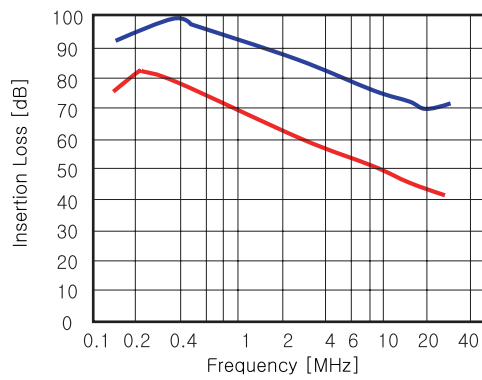
41. TB6-2010C3CH



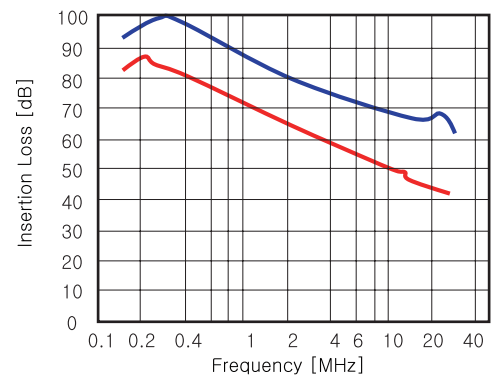
42. TB6-2010C3DH



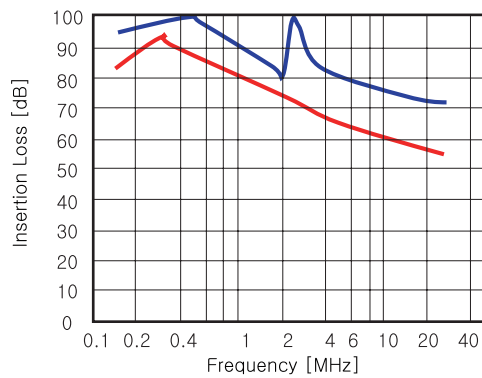
43. TB6-2016C3CH



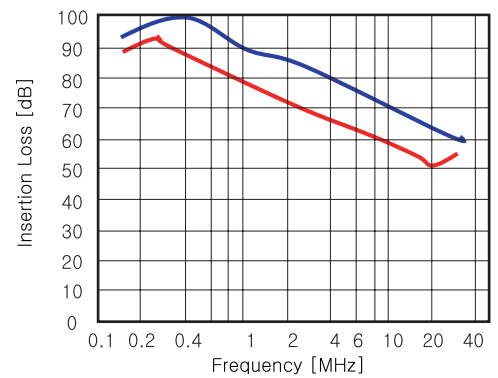
44. TB6-2016C3DH



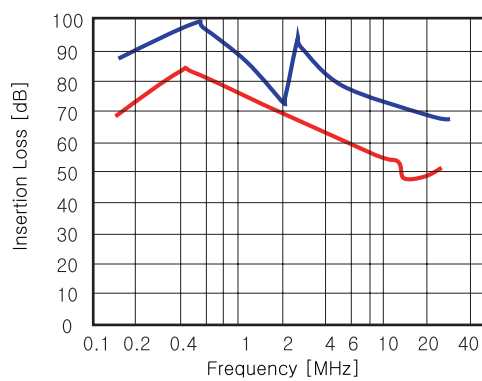
45. TB6-2020C3CH



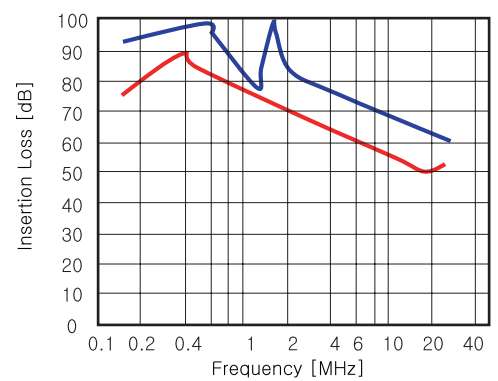
46. TB6-2020C3DH



47. TB6-2030C3CH



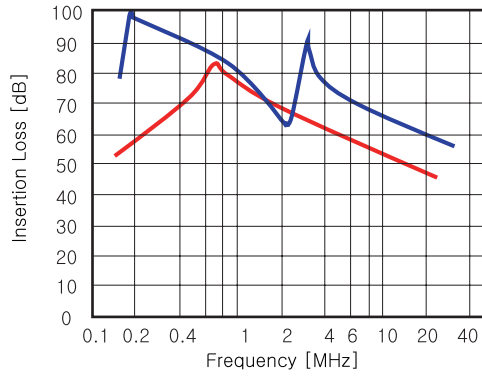
48. TB6-2030C3DH



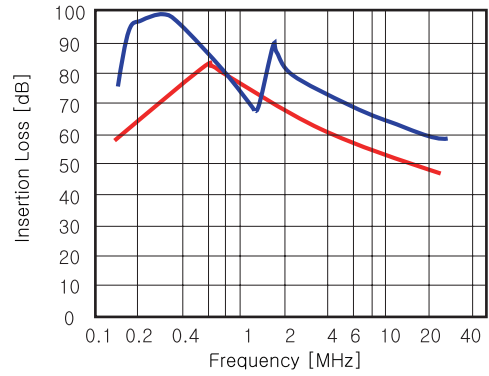
Common mode ( — )

Normal mode ( — )

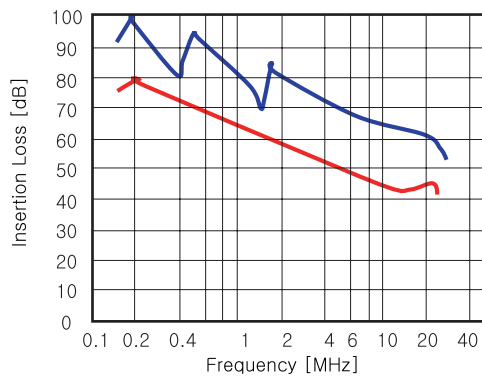
49. TB6-2040C3CH



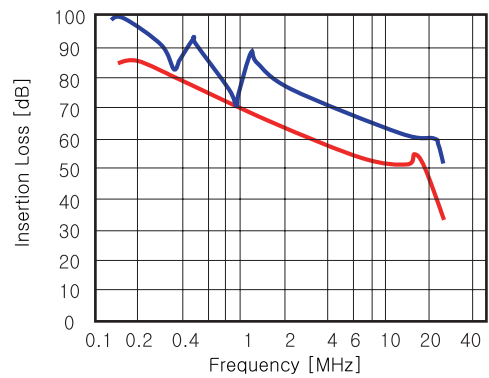
50. TB6-2040C3DH



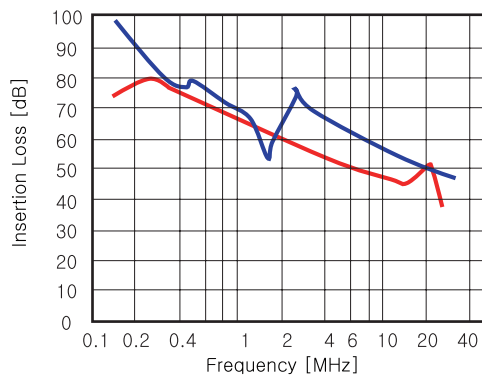
51. TB6-2060C3CH



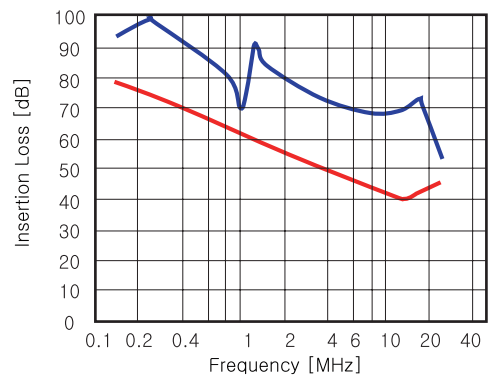
52. TB6-2060C3DH



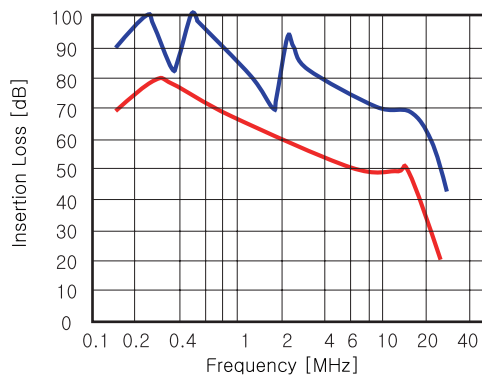
53. TB6-2080C3CH



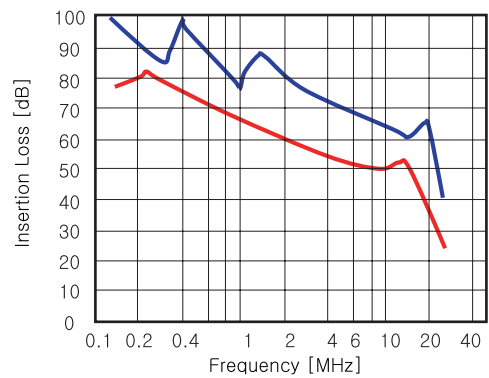
54. TB6-2080C3DH



55. TB6-2100C6CH



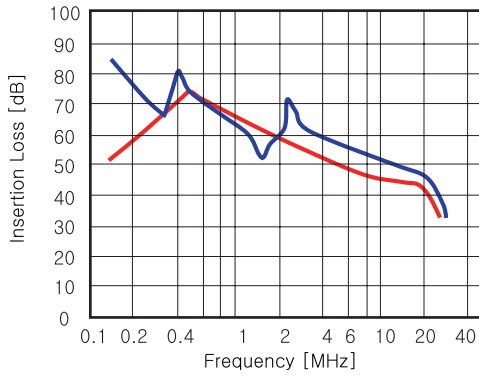
56. TB6-2100C6DH



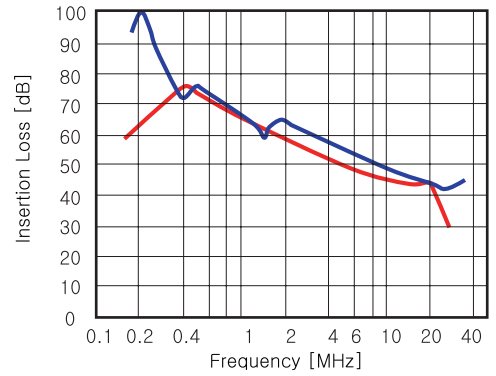
Common mode ( — )

Normal mode ( — )

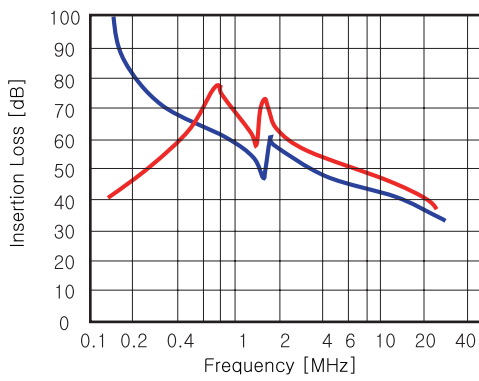
57. TB6-2150C6CH



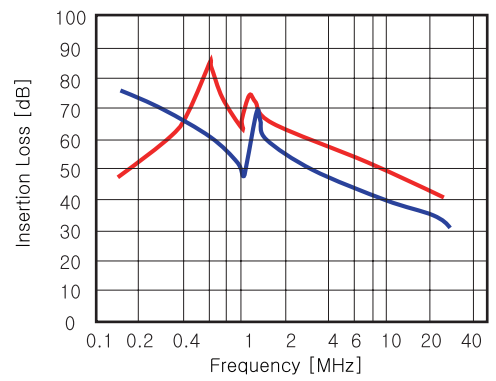
58. TB6-2150C6DH



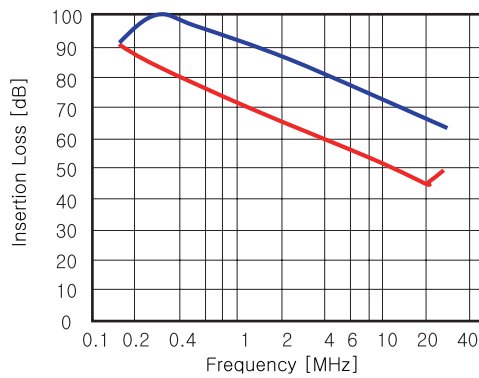
59. TB6-2200C9DH



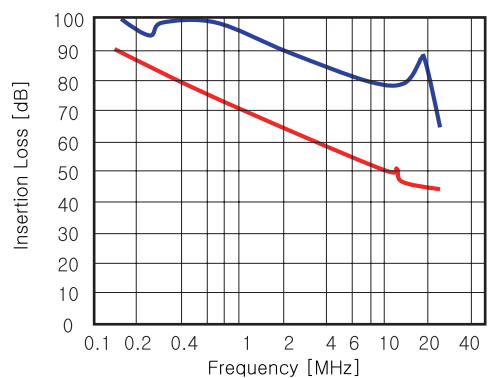
60. TB6-2200C9DH



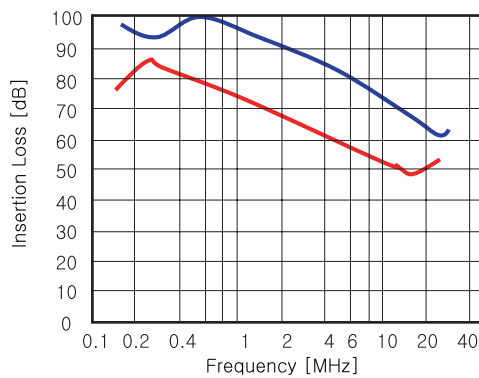
61. TB6-5010D3CH



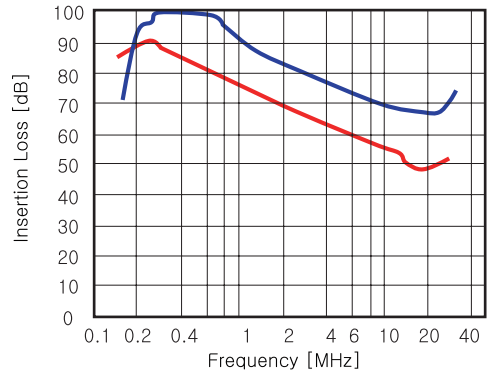
62. TB6-5010D3DH



63. TB6-5016D3CH



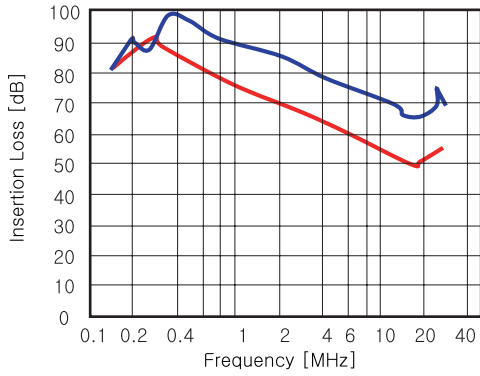
64. TB6-5016D3DH



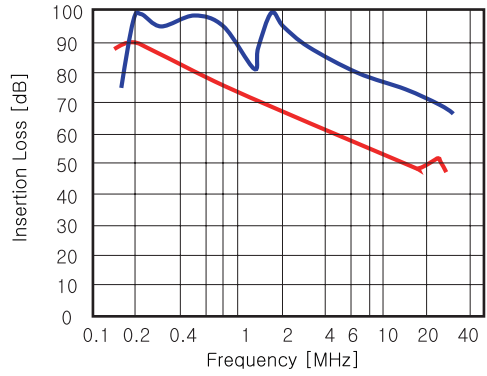
Common mode ( — )

Normal mode ( — )

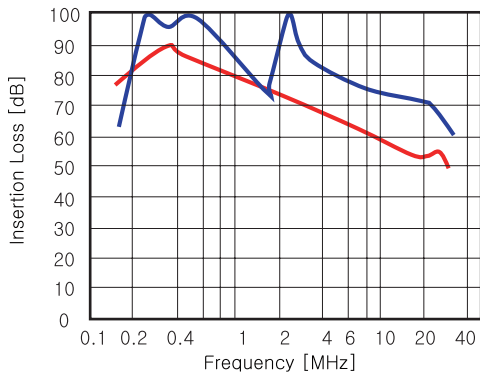
65. TB6-5020D3CH



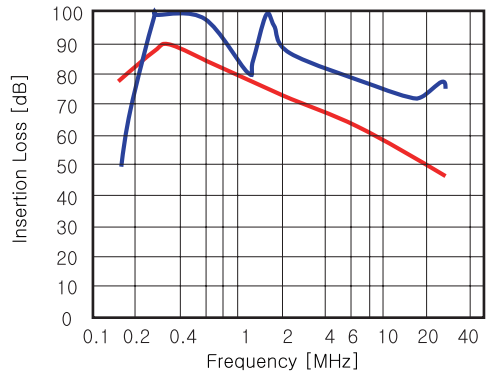
66. TB6-5020D3DH



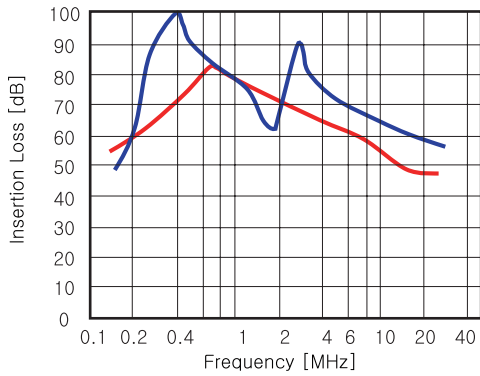
67. TB6-5030D3CH



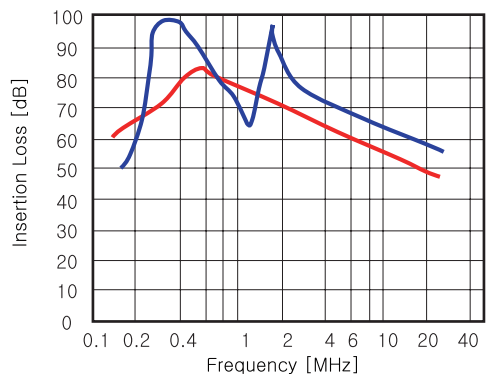
68. TB6-5030D3DH



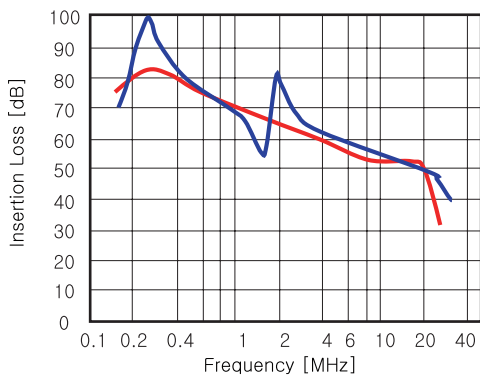
69. TB6-5040D3CH



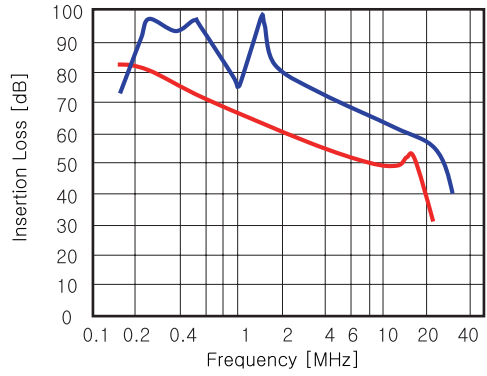
70. TB6-5040D3DH



71. TB6-5060D3CH



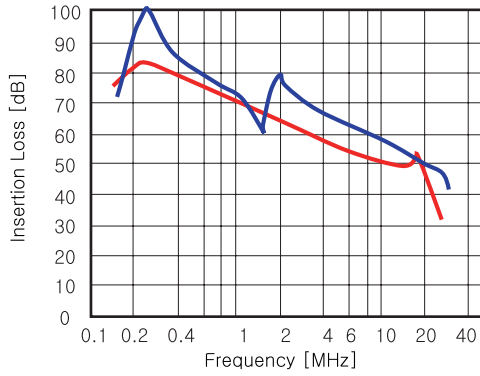
72. TB6-5060D3DH



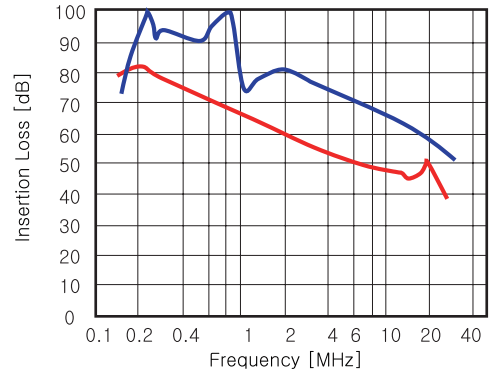
Common mode ( — )

Normal mode ( — )

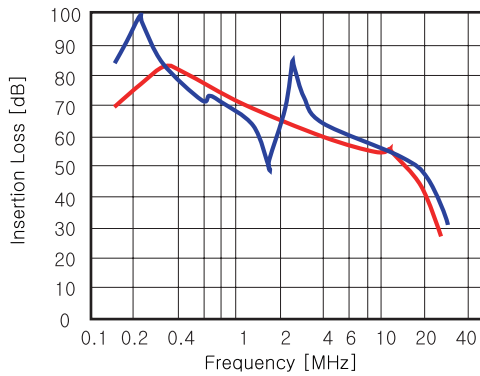
73. TB6-5080D3CH



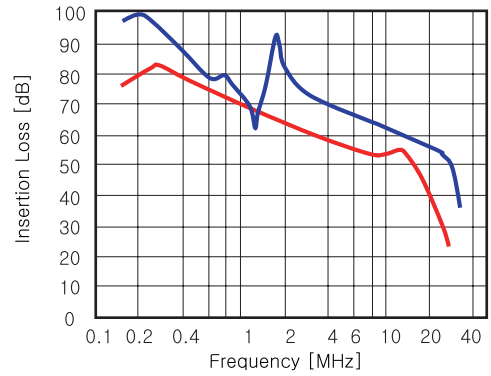
74. TB6-5080D3DH



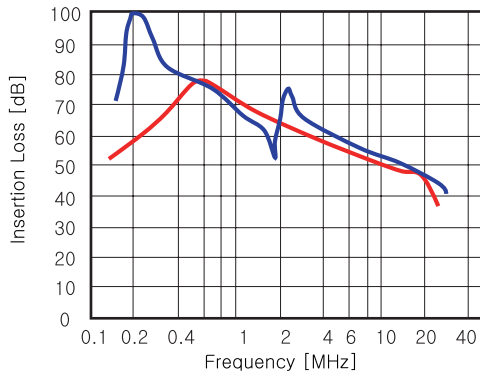
75. TB6-5100D6CH



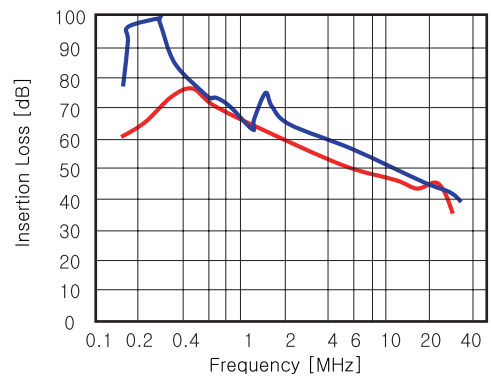
76. TB6-5100D6DH



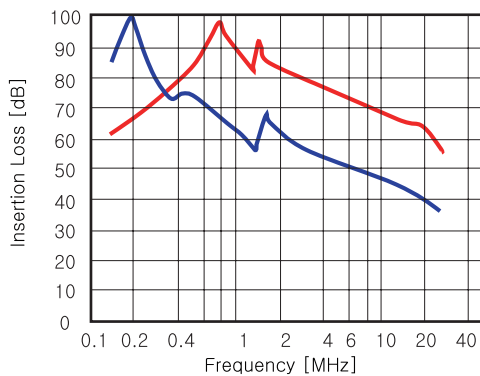
77. TB6-5150D6CH



78. TB6-5150D6DH



79. TB6-5200D9CH



80. TB6-5200D9DH

