

EMI/EMC FILTER

RoHS

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 : CE, UL, KC(Some models only), SEMKO+ENEC

Applications

- Battery, ESS equipments
- Electric vehicle charger
- 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																				
TB6-5010D3*G/H	3Φ×500V (50/60Hz)	10A	1.0 V	<p style="text-align: center;">60℃</p> <p style="text-align: center;">Derating Curve</p> <table border="1"> <caption>Derating Curve Data</caption> <thead> <tr> <th>Ambient Temperature [°C]</th> <th>Current Ratio [%]</th> </tr> </thead> <tbody> <tr><td>0</td><td>100</td></tr> <tr><td>10</td><td>100</td></tr> <tr><td>20</td><td>100</td></tr> <tr><td>30</td><td>100</td></tr> <tr><td>40</td><td>100</td></tr> <tr><td>60</td><td>80</td></tr> <tr><td>80</td><td>60</td></tr> <tr><td>90</td><td>40</td></tr> <tr><td>100</td><td>0</td></tr> </tbody> </table>	Ambient Temperature [°C]	Current Ratio [%]	0	100	10	100	20	100	30	100	40	100	60	80	80	60	90	40	100	0
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100	0																							
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

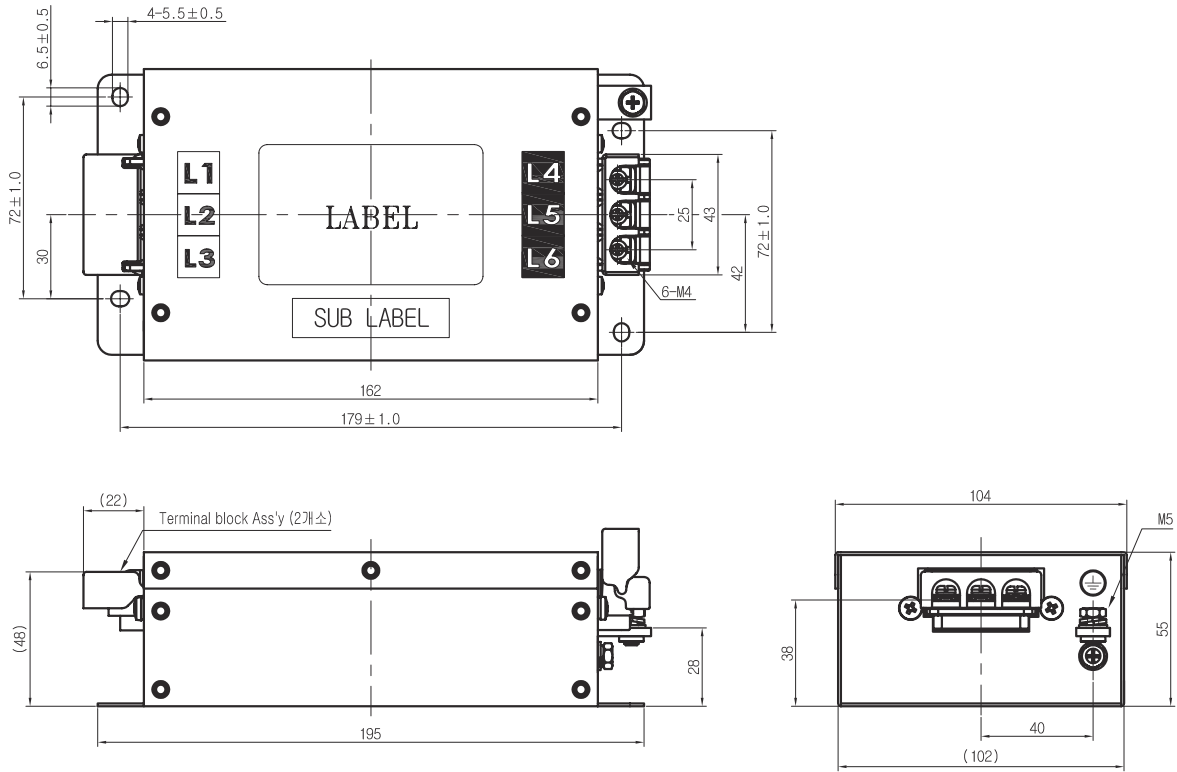
Insulation Resistance: 300MΩ minimum at 100VDC, line to ground

Model Number Construction

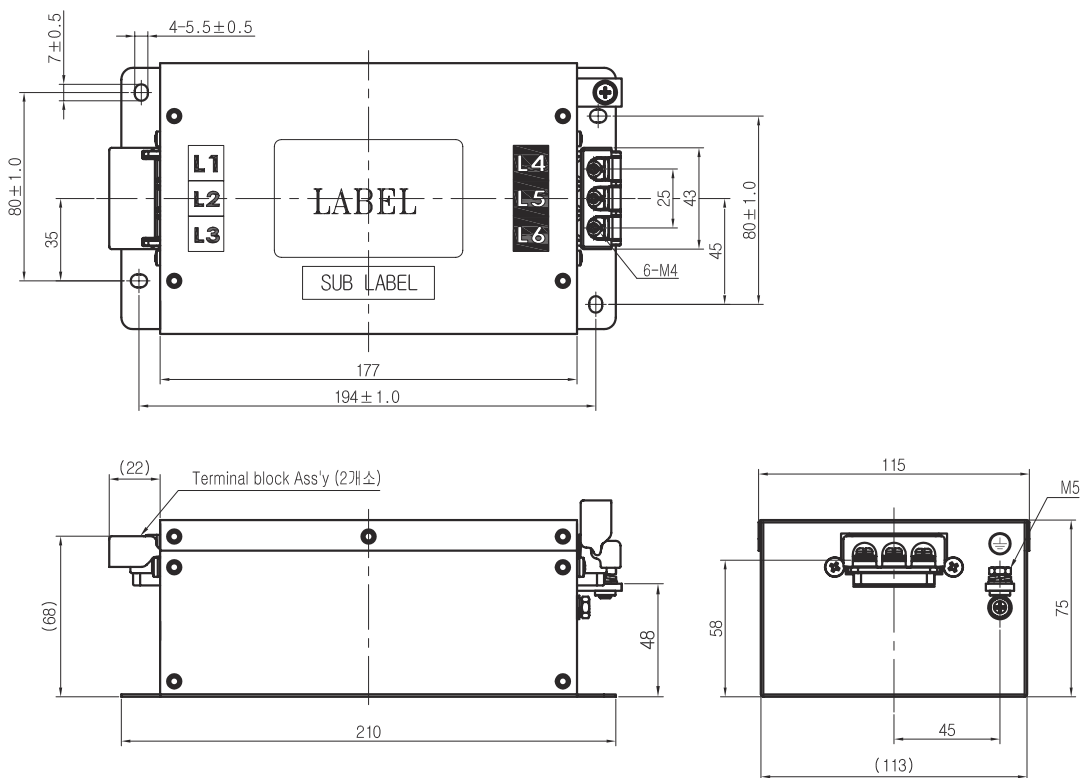
TB6	*	*	*	*	*	*
Series name : 3 Phase	Rated Voltage 2 : 250 VAC 5 : 500 VAC	Rated Current 10 = 10A 16 = 16A 20 = 20A 30 = 30A 40 = 40A 60 = 60A 80 = 80A 100 = 100A 150 = 150A 200 = 200A	Circuit Type C,D Refer to the below	Xc Value 3 : 3.3uF 6 : 6.6uF 9 : 9.9uF	Yc Value C : 0.1uF D : 0.22uF	Characteristic Option G : General Attenuation H : High Attenuation

Shapes and Dimensions

TB6-5010***G/H, TB6-5016***G/H

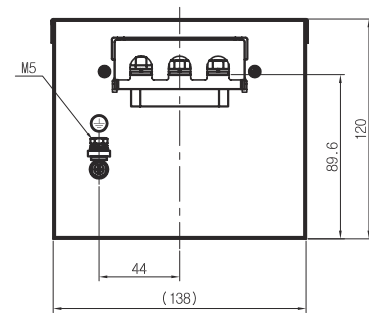
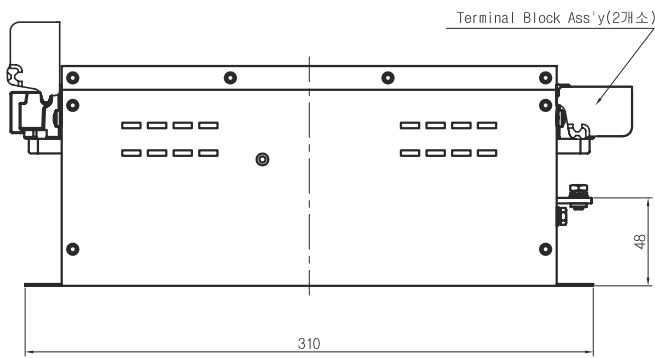
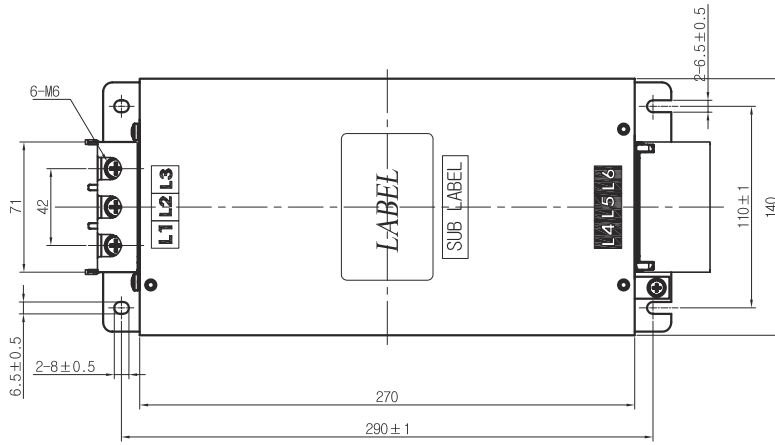


TB6-5020***G/H, TB6-5030***G/H, TB6-5040***G/H

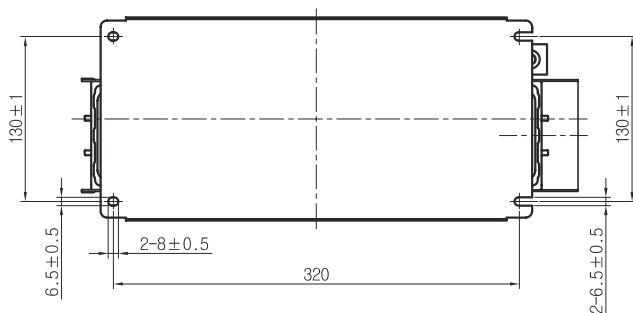
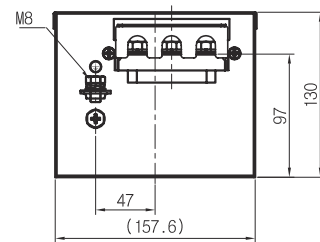
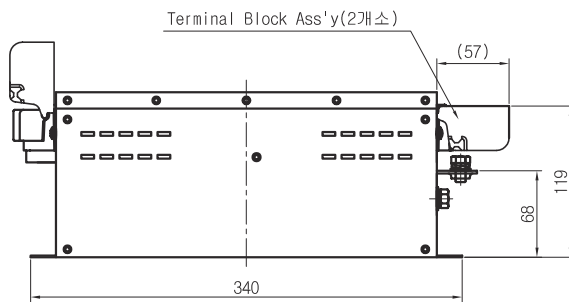
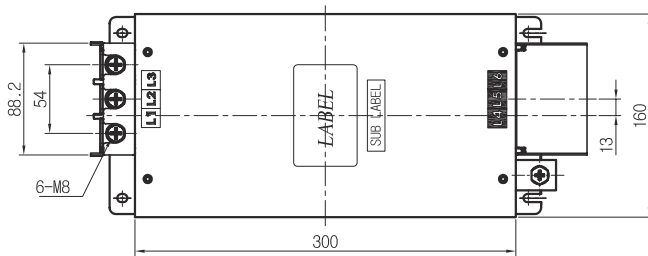


Shapes and Dimensions

TB6-5060***G/H, TB6-5080***G/H

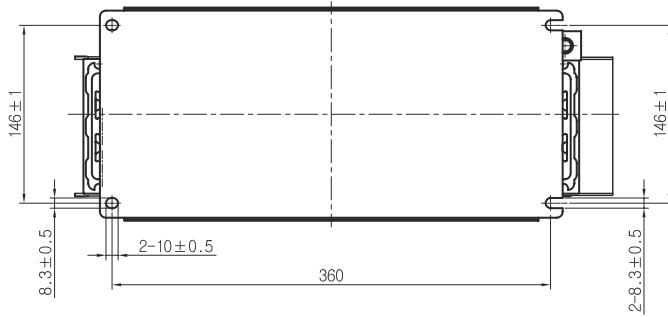
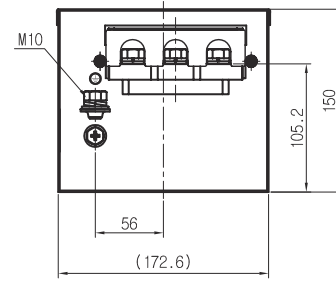
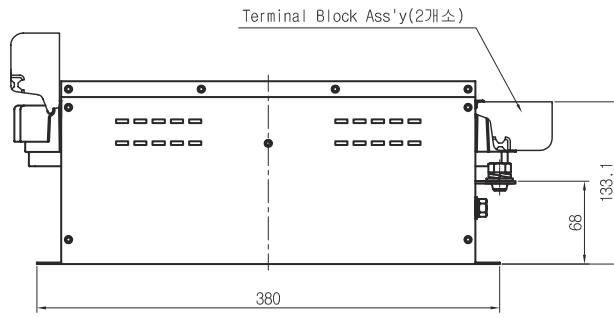
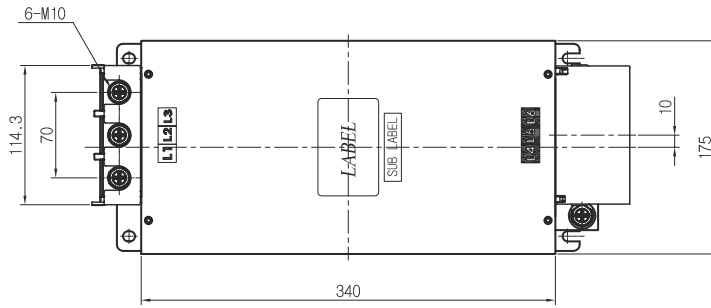


TB6-5100***G/H, TB6-5150***G/H

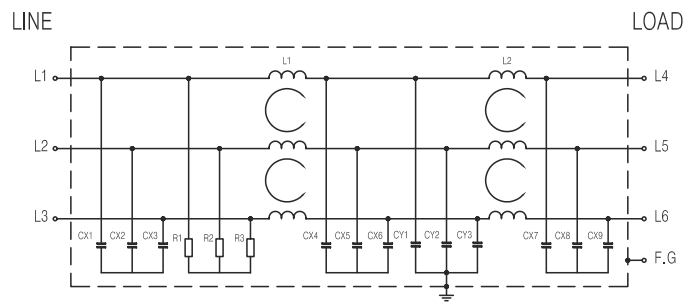


Shapes and Dimensions

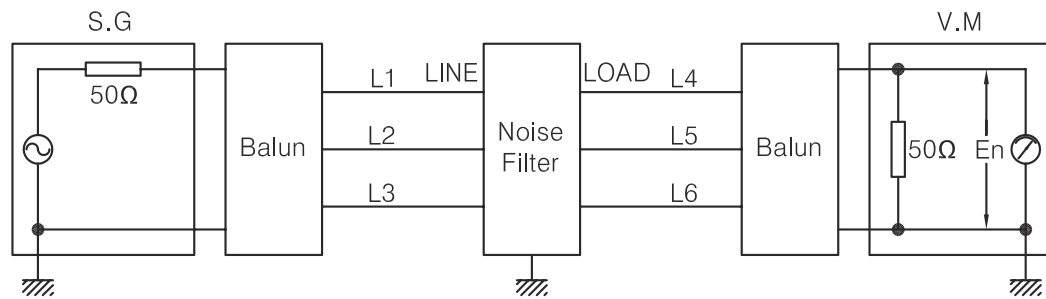
TB6-5200***G/H



Circuit Diagram



Attenuation Measuring Method



OSC Level: 0 dB

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

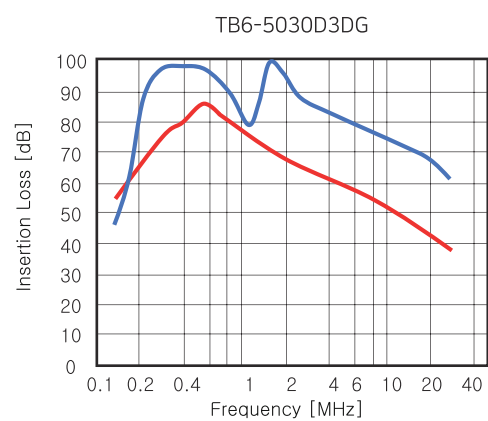
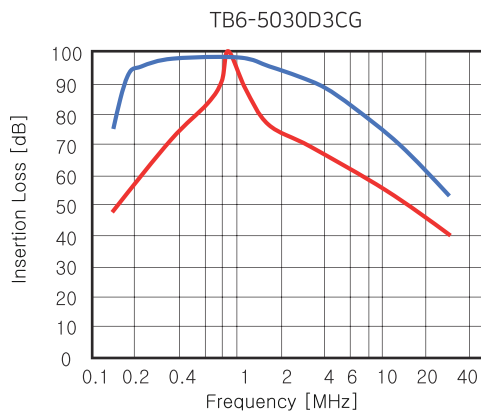
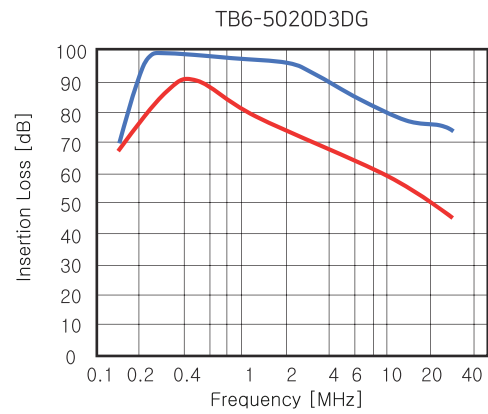
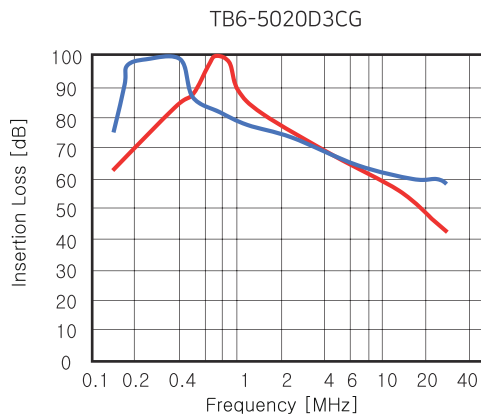
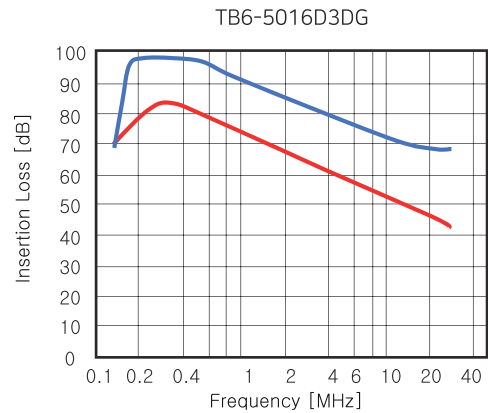
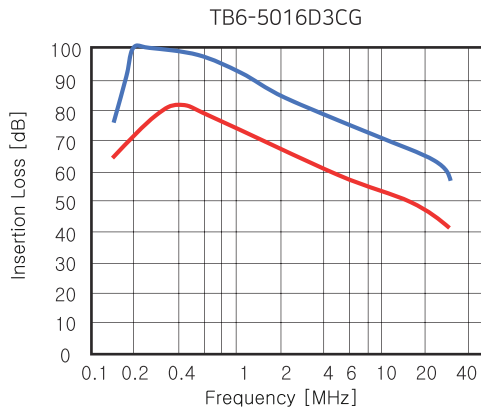
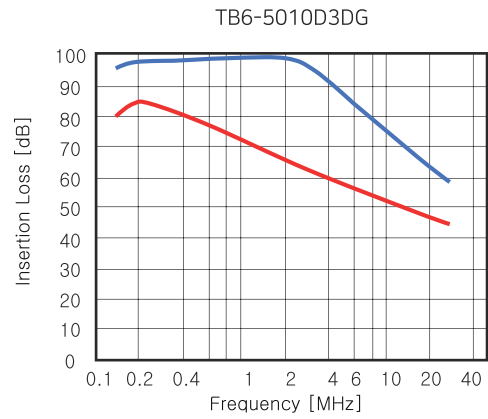
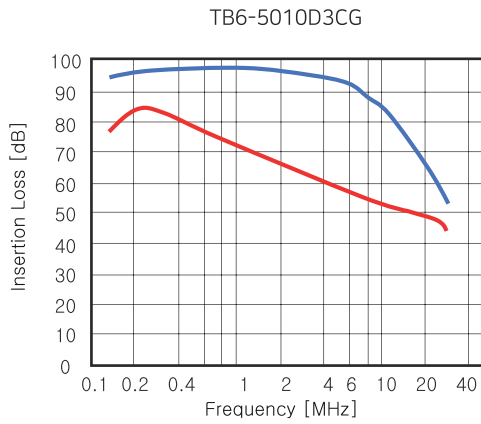
E1: Level with the noise filter in the circuit.

E2: Level without the noise filter in the circuit.

Attenuation Characteristics

Common mode (—)

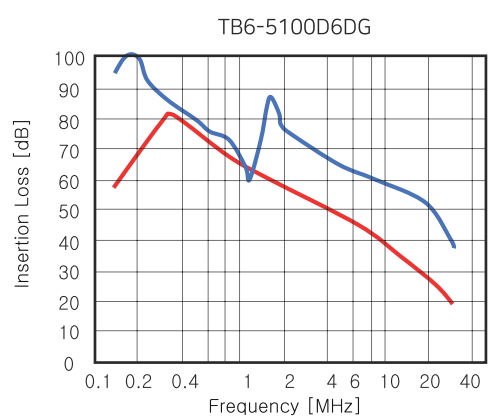
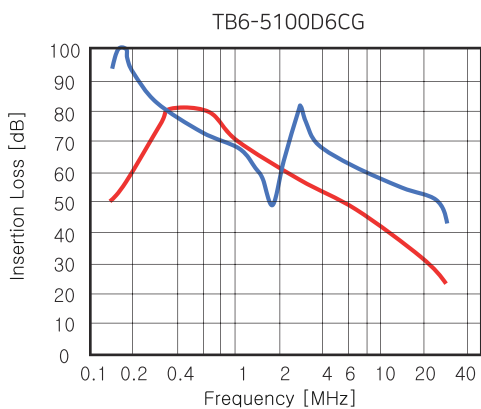
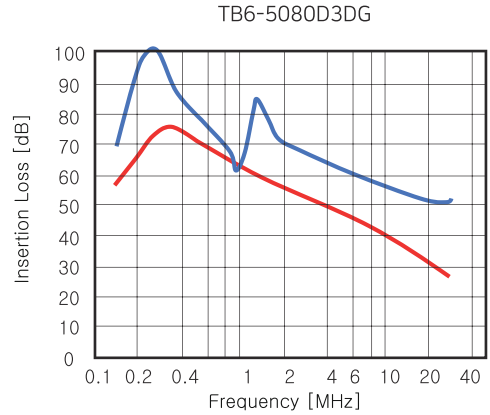
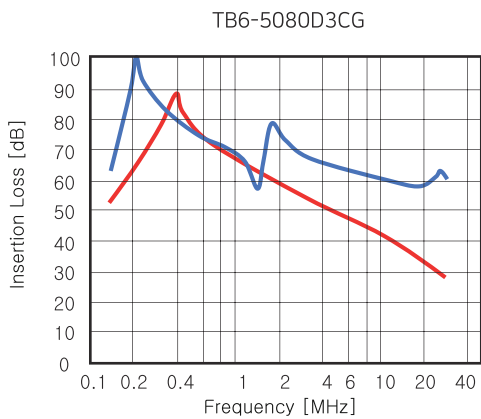
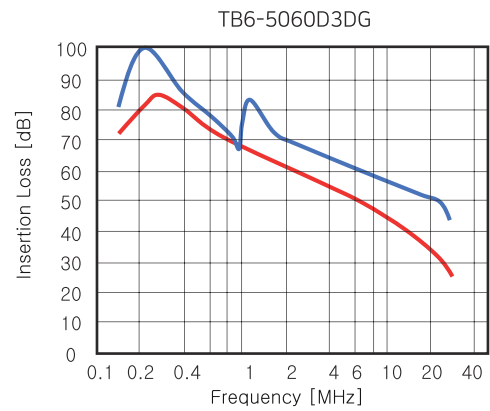
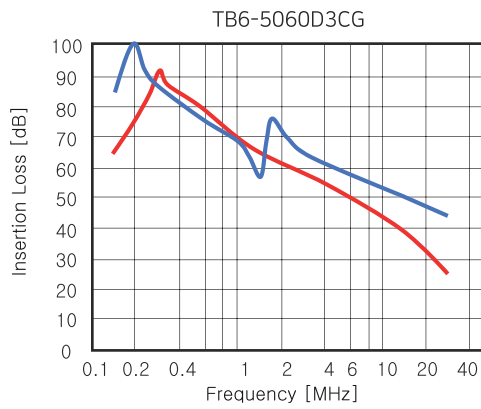
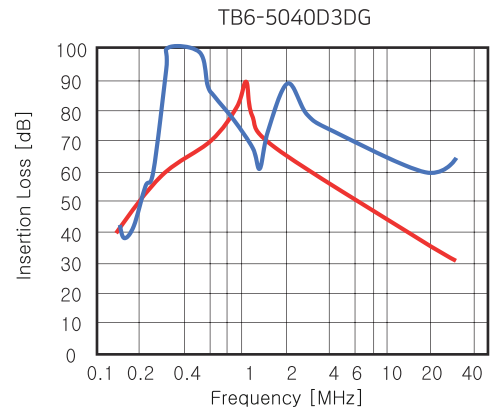
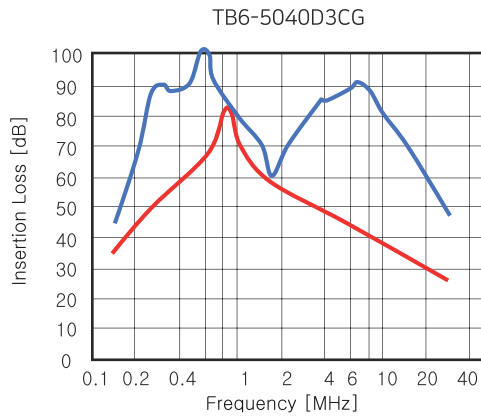
Normal mode (—)



Attenuation Characteristics

Common mode (—)

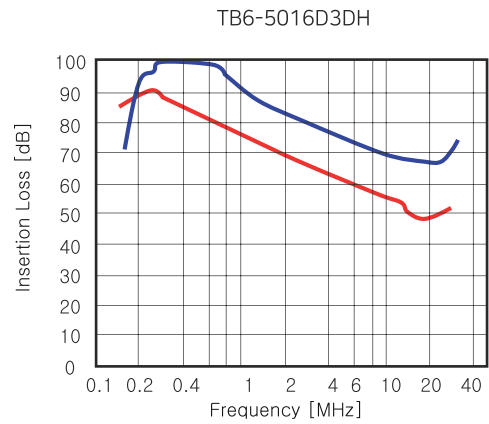
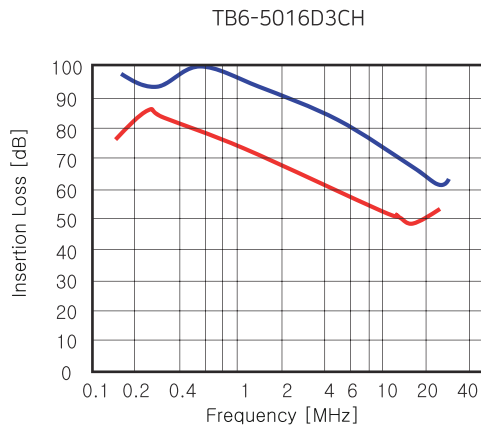
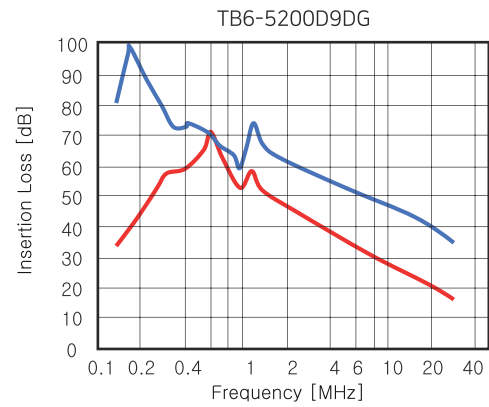
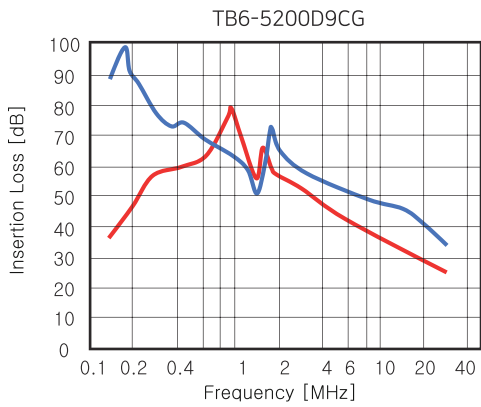
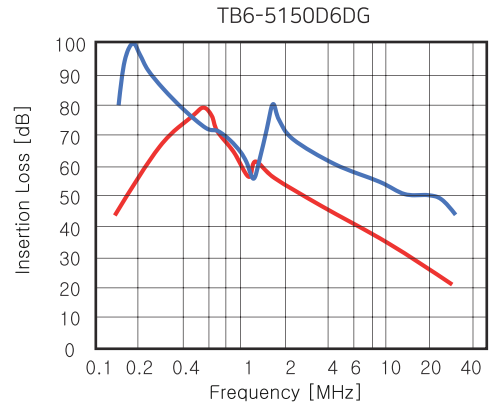
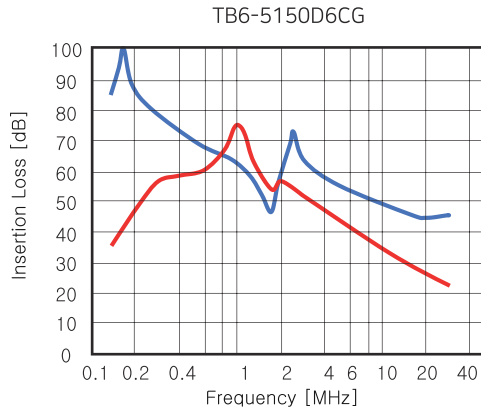
Normal mode (—)



Attenuation Characteristics

Common mode (—)

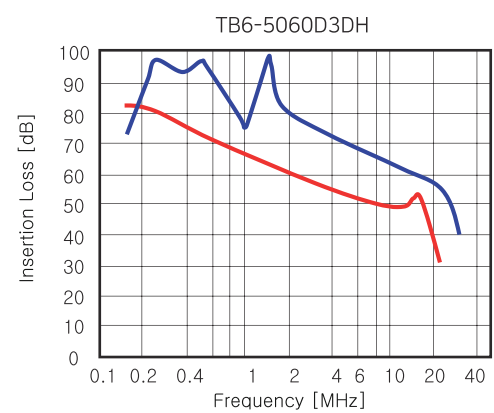
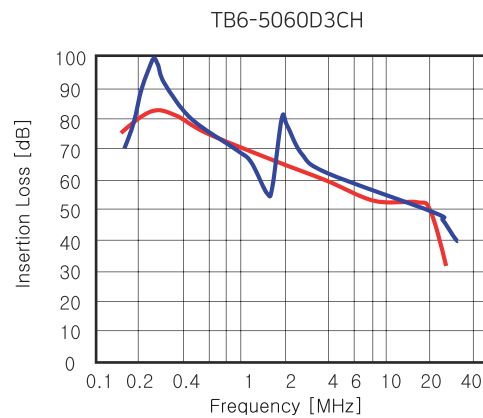
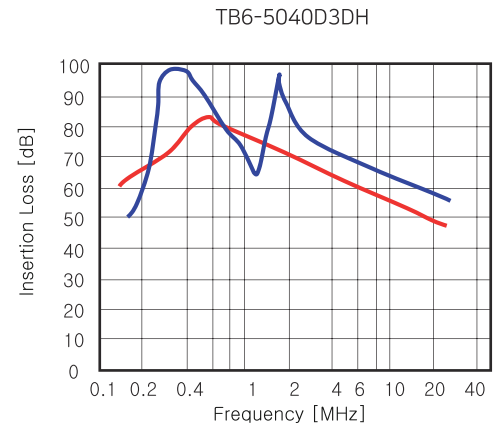
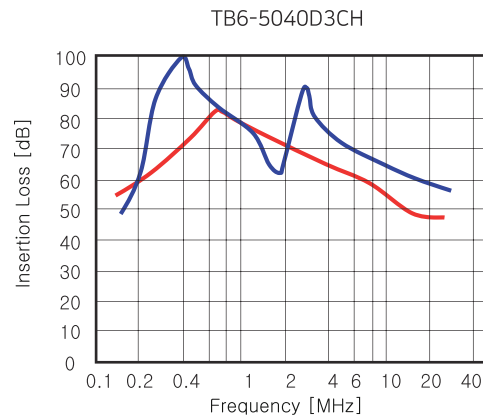
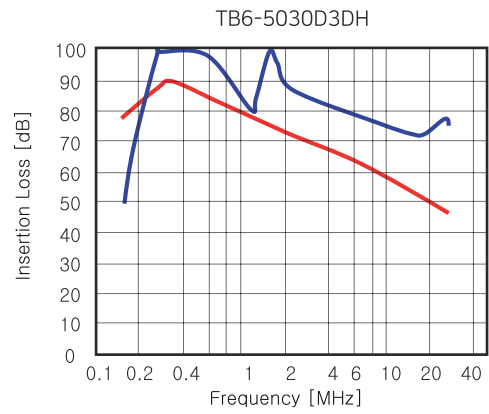
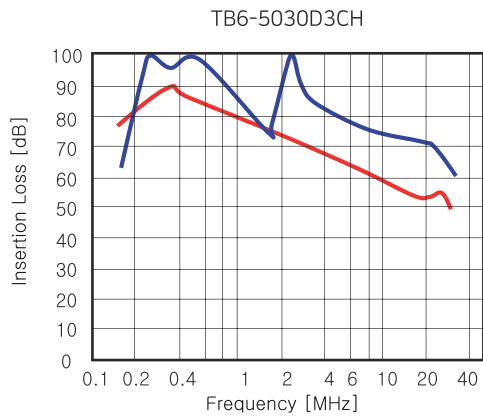
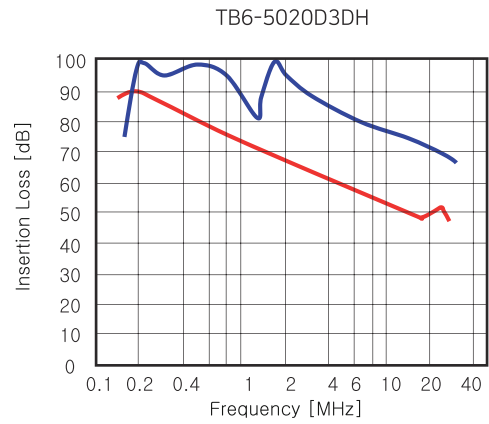
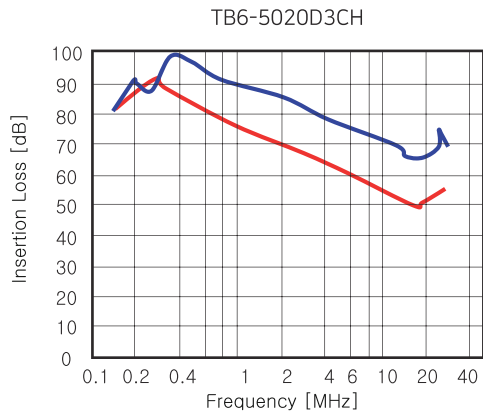
Normal mode (—)



Attenuation Characteristics

Common mode (—)

Normal mode (—)



Attenuation Characteristics

Common mode (—)

Normal mode (—)

