

# EMI/EMC FILTER

RoHS

## TB6-2/4 SERIES



### 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, 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   |
|--------------|----------------------|---------------|-------------------------------|--|
| TB6-4250BC6* | 3Φ×440V<br>(50/60Hz) | 250           | 1.0 V                         | -25°C to +100°C<br>Including temperature rise<br><b>Derating Curve</b><br> |
| TB6-4300BC6* |                      | 300           |                               |  |
| TB6-4400BC6* |                      | 400           |                               |  |
| TB6-4500BBA* |                      | 500           |                               |  |
| TB6-4600BBA* |                      | 600           |                               |  |

※ 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

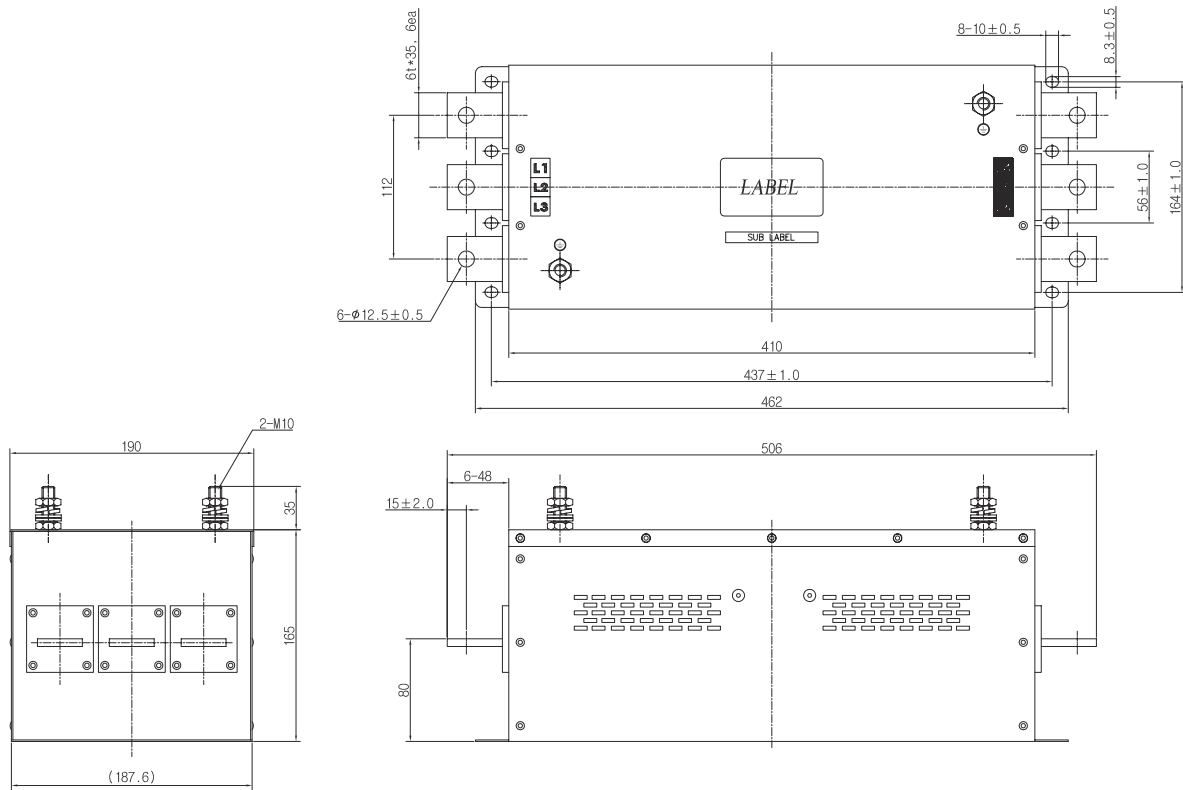
Insulation Resistance: 300MΩ minimum at 100VDC, line to ground

## Model Number Construction

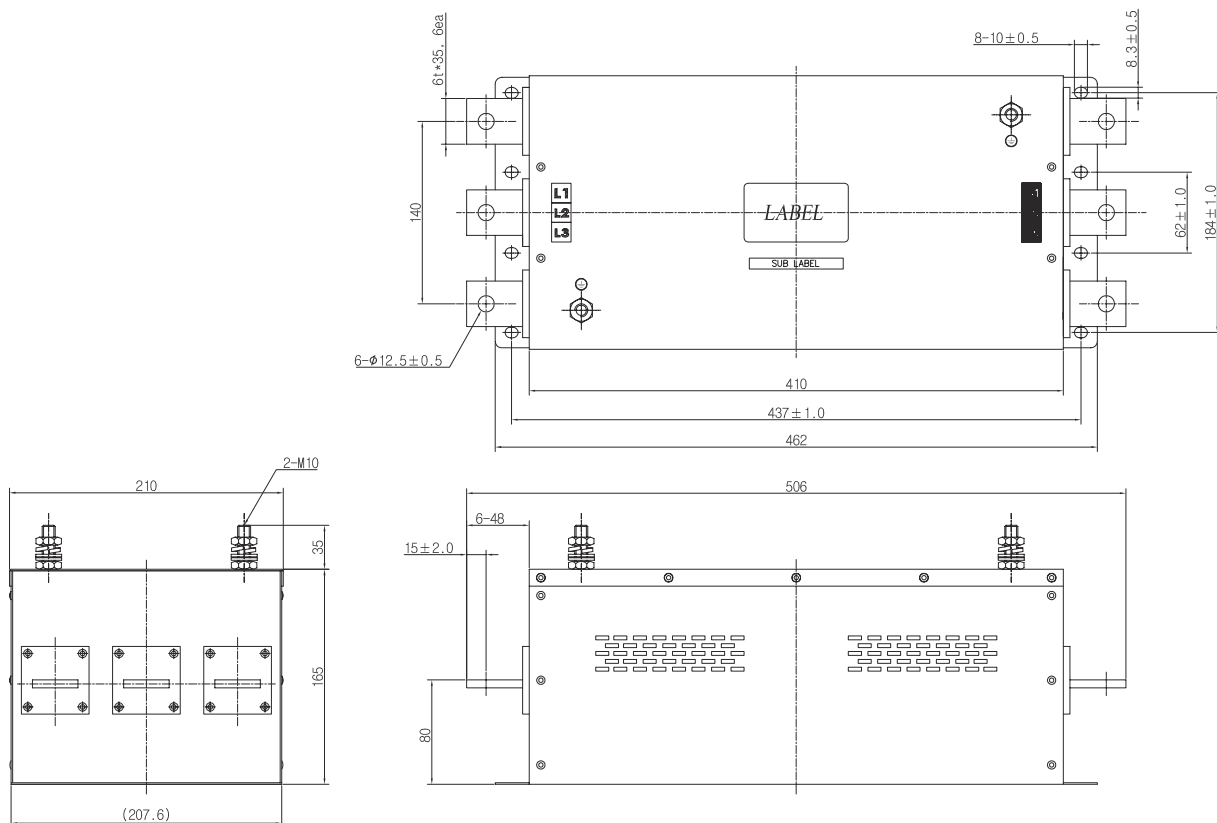
| TB6                      | *   | *   | *  | *  | *  | *                                   |
|--------------------------|---|---|--|--|--|-------------------------------------|
| Series name<br>: 3 Phase | Rated Voltage<br>2 : 250 VAC<br>4 : 440 VAC | Rated Current<br>250 = 250A<br>300 = 300A<br>400 = 400A<br>500 = 500A<br>600 = 600A | The number<br>of core(s)<br>A = 1EA<br>B = 2EA | Circuit Type<br>A,B,C<br>Refer to the<br>below | Xc Value<br>3 : 3.3uF<br>6 : 6.6uF<br>A : 19.8uF | Yc Value<br>1 : 0.1uF<br>2 : 0.22uF |

# Shapes and Dimensions

TB6-4250/4300/4400\*\*\*\*

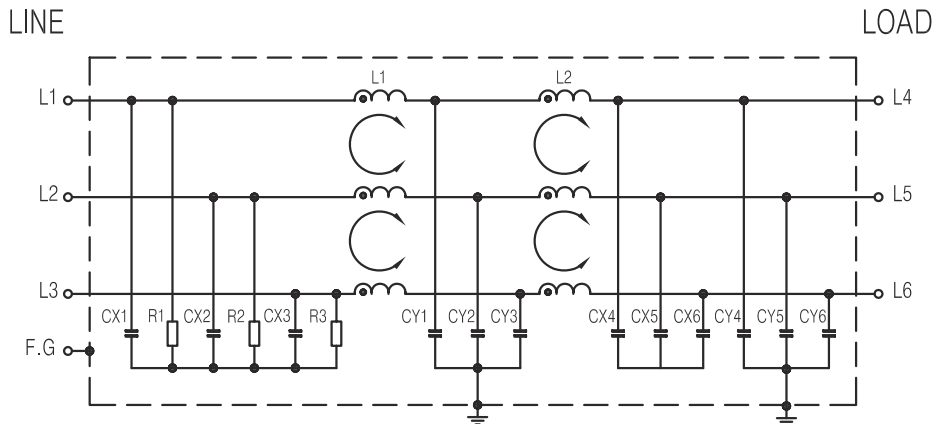


TB6-4500/4600\*\*\*\*

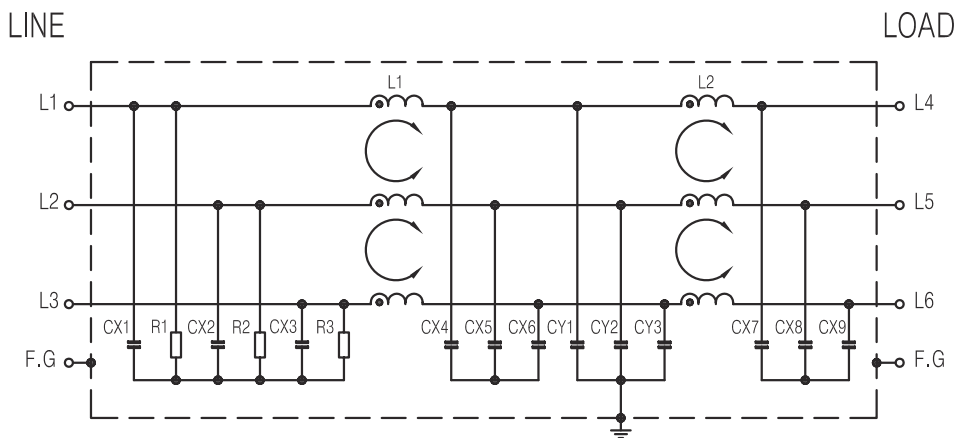


# Circuit Diagram

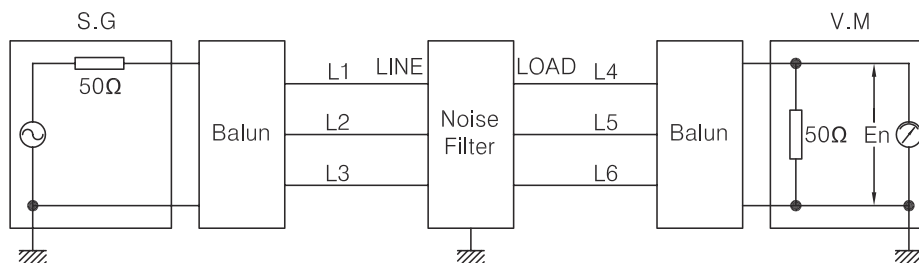
Circuit Type B



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 ( — )

