

# EMI/EMC FILTER

## TB1 SERIES



### FEATURES

- 2 Line, 2 Stage Filter
- Easy connection and installation.
- Excellent filtering characteristics for both differential mode and common mode.
- Safety approval pending: cULus, CQC, ENEC, SEMKO, KC

### APPLICATIONS

- Use in medical, industrial equipment, gaming, other ground-current-sensitive applications.
- For equipments requiring very high noise attenuation.
- Measuring and testing instruments.

### SPECIFICATIONS

Model	Rated Voltage AC [V]	Rated Current [A]	Leakage Current Max [at 250V, 60Hz] [mA]	Temperature Rise [°C]	Operating Temperature [°C]
TB1-06A0D0	250(50/60Hz)	06	0.1	45	-40~85 including temperature rise
TB1-10A0D0		10			
TB1-16A0D0		16			
TB1-20A0D0		20			
TB1-30A0D0		30			
TB1-06A080		06	0.5		
TB1-10A080		10			
TB1-16A080		16			
TB1-20A080		20			
TB1-30A080		30			

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

Note:

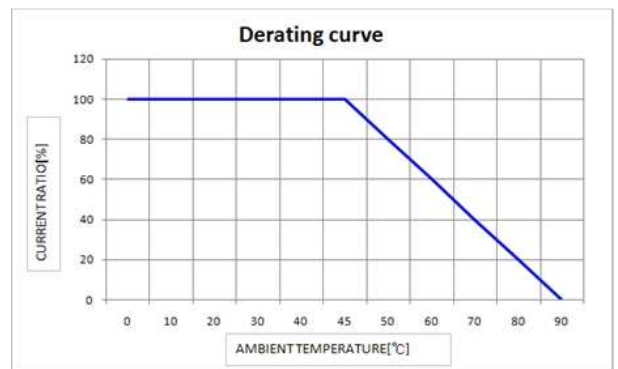
Storage Temperature Range: -25°C to +60°C

Withstand Voltage

4000V AC or 1500V for 1 minute between line and ground  
(TB1-\*\*A0D0: 4000VAC, TB1-\*\*A080: 1500VAC)  
1800V DC for 1 minute between line and line(Without Resistor)

Insulation Resistance

300MΩ minimum at 500V DC between line and ground.



■ Model Number Construction

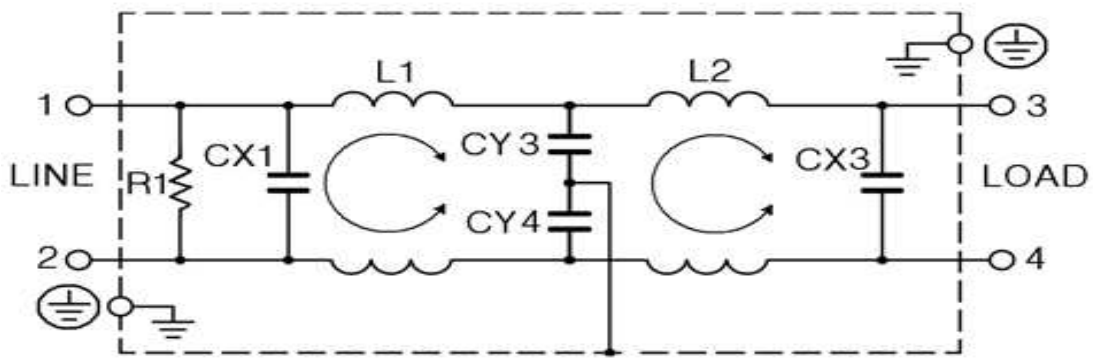
TB1-  
Series name  
(2 Line, 2 Stage)

06  
Rated Current  
06 = 6 A  
10 = 10 A  
16 = 16 A  
20 = 20 A  
30 = 30 A

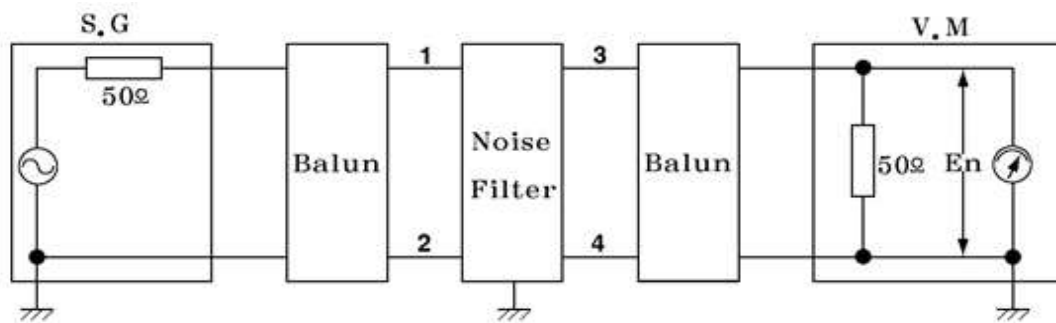
A  
Line to line capacitor code.  
Input/output: 1.0  $\mu$ F  
(middle line: none)

0D0  
Line to ground capacitor code.  
(only middle line)  
0D0: 470pF(Y1 class)  
080: 3300pF(Y2 class)

• 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.

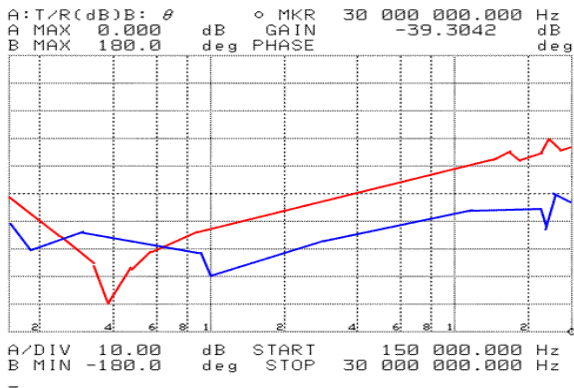
• Attenuation Characteristics

COMMON MODE( — )

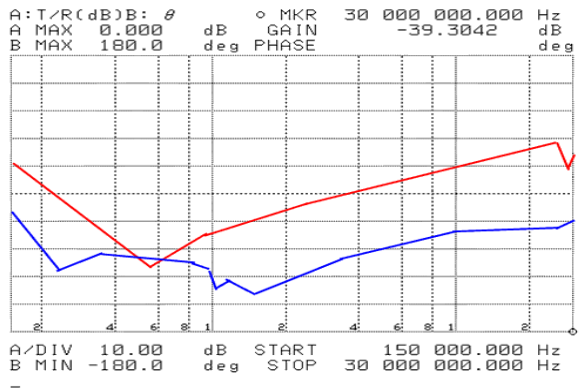
NORMAL MODE( — )

- TB1-\*\*A0D0 SERIES -

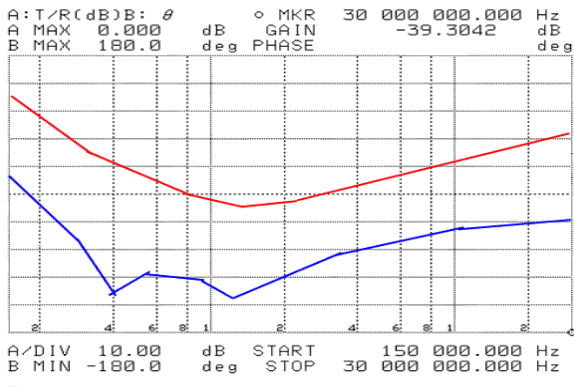
**TB1-06A0D0**



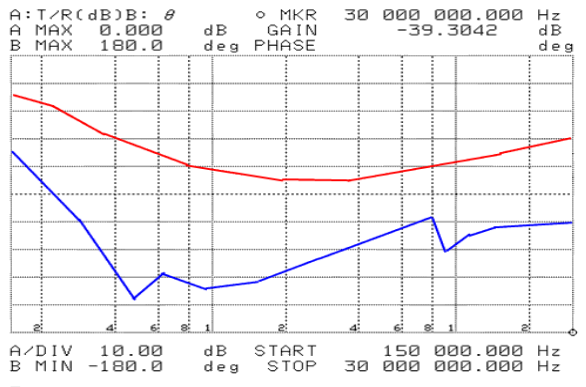
**TB1-10A0D0**



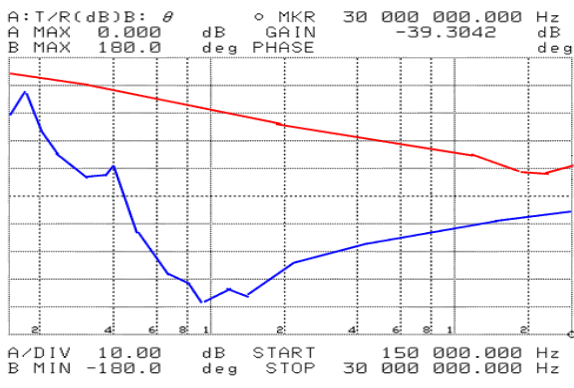
**TB1-16A0D0**



**TB1-20A0D0**

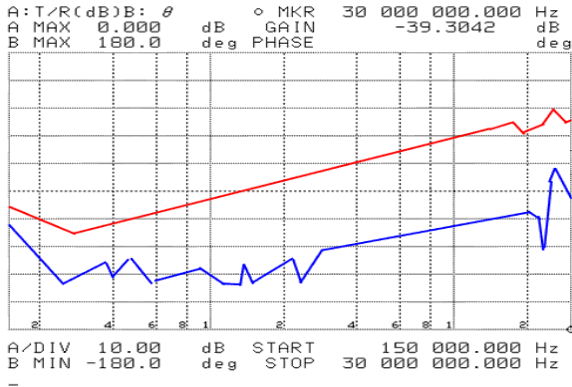


**TB1-30A0D0**

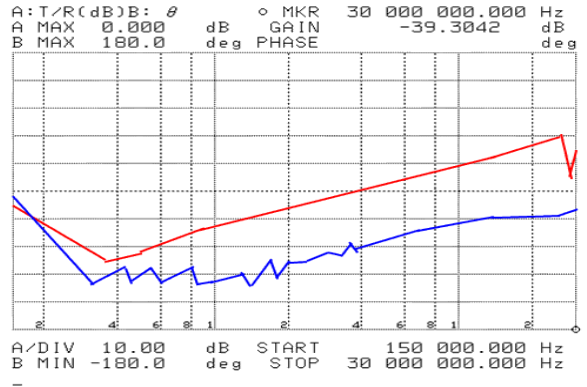


- TB1-\*\*A080 SERIES -

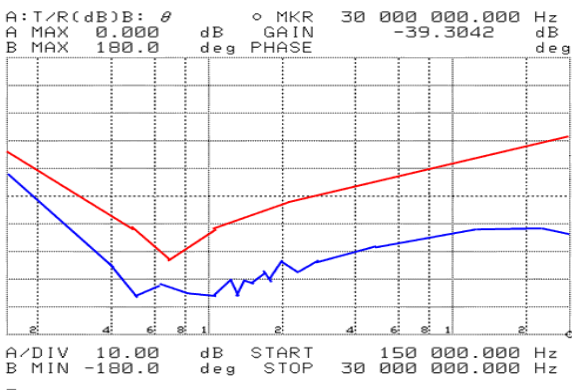
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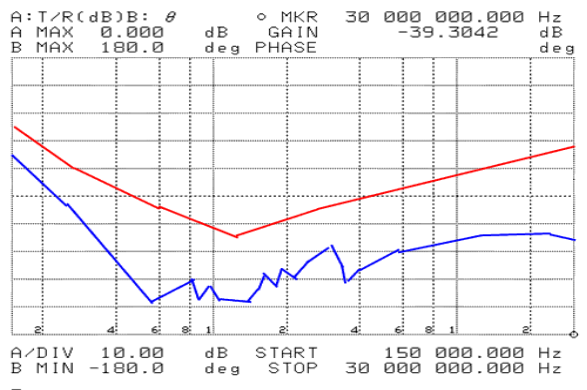
**TB1-10A080**



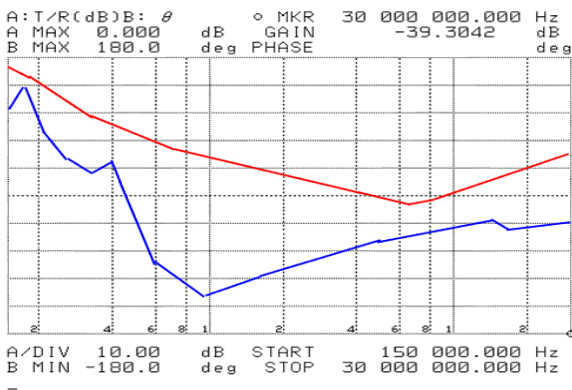
**TB1-16A080**



**TB1-20A080**



**TB1-30A080**



• Shapes and Dimensions

TB1-SERIES

