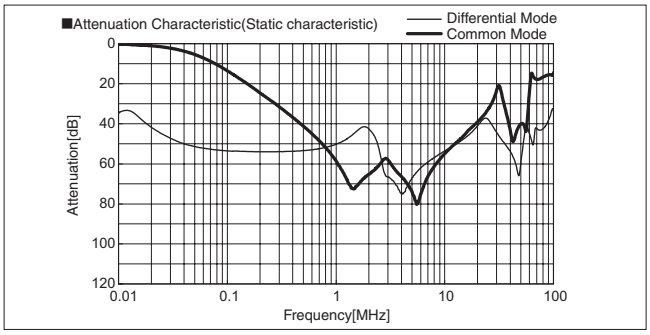
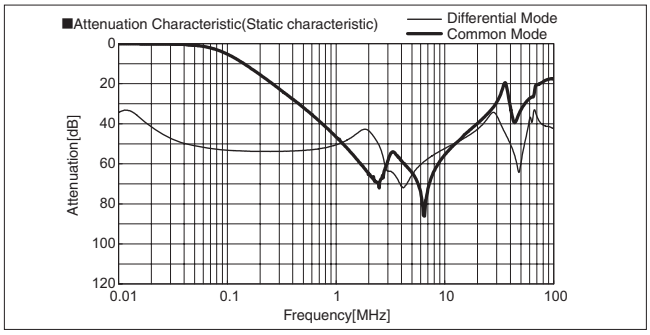
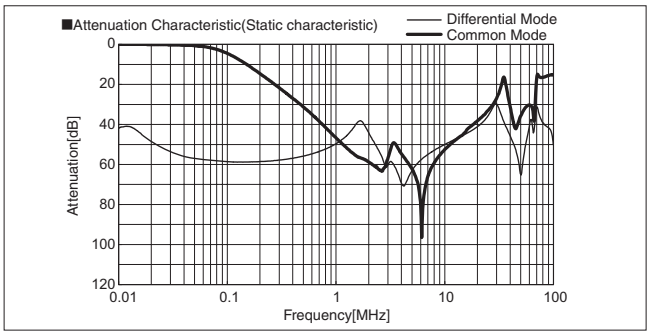
SNA-01-223



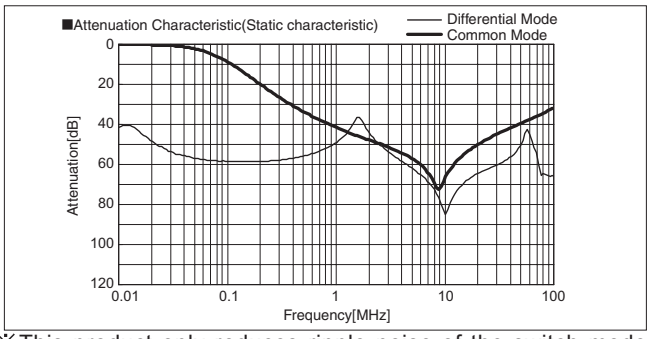
SNA-03-223



SNA-06-223



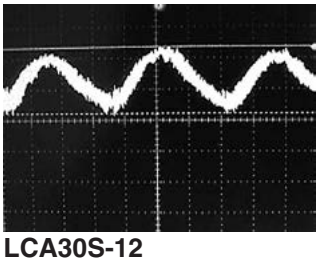
SNR-10-223



※This product only reduces ripple noise of the switch mode power supply. It cannot be used effectively to reduce ripple noise at line frequency.

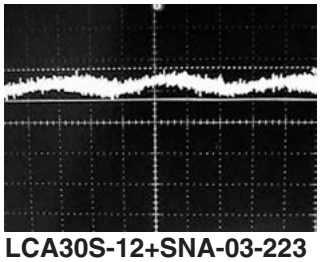
■Example of attenuation output noise.

LCA10S-12



5mV/DIV
4μS/DIV

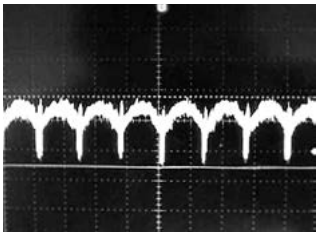
LCA10S-12+SNA-01-223



5mV/DIV
4μS/DIV

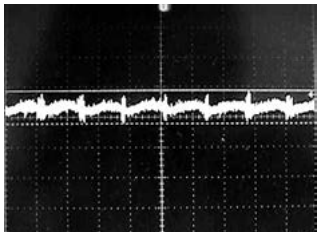
(Room temp,Room Humi)
BW:500MHz
LCA10S-12
12V 0.9A

LCA30S-12



5mV/DIV
4μS/DIV

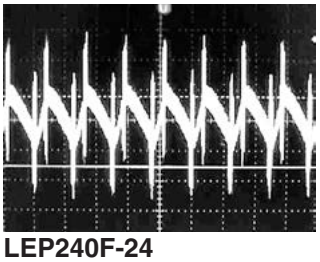
LCA30S-12+SNA-03-223



5mV/DIV
4μS/DIV

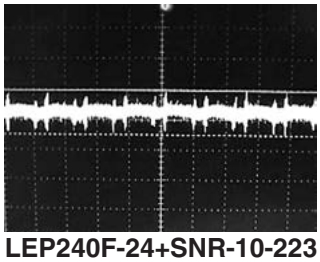
(Room temp,Room Humi)
BW:500MHz
LCA30S-12
12V 2.5A

LCA50S-12



10mV/DIV
4μS/DIV

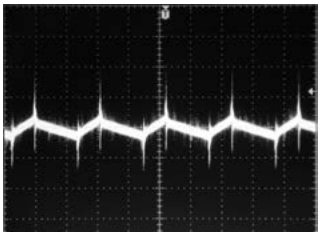
LCA50S-12+SNA-06-223



10mV/DIV
4μS/DIV

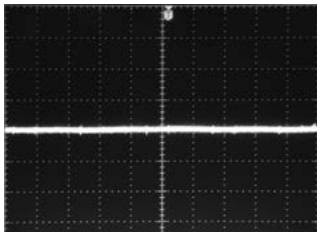
(Room temp,Room Humi)
BW:500MHz
LCA50S-12
12V 4.3A

LEP240F-24



50mV/DIV
4μS/DIV

LEP240F-24+SNR-10-223



50mV/DIV
4μS/DIV

(Room temp,Room Humi)
BW:500MHz
LEP240F-24
24V 10A

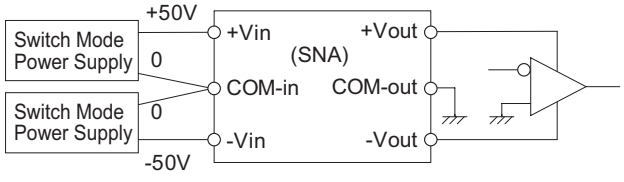
※Measured by differential probe (KEISOKU-GIKEN:DP-100).

1 Wiring to Input/Output terminals

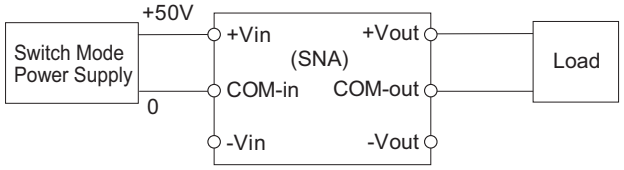
■ This filter uses polarized components (electrolytic capacitor), The filter will break if reverse voltage is applied to the input/output terminals. Please exercise caution when wiring.

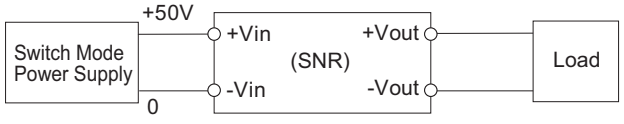
2 Application examples

■ Power supply for an operational amplifier.



■ Single output power supply.





3 Safety Considerations

■ To apply for safety standard approval using this EMI/EMC Filter, the following conditions must be met.

- The unit must be used as a component of an end-use equipment.
- The unit must be used in the secondary circuit that is insulated from the primary circuit through double or reinforced insulation.
- The mounting plate (FG) must be connected to safety ground of end-use equipment.

4 Optional Parts

■ The harness for Input/Output of EMI/EMC Filter is available.

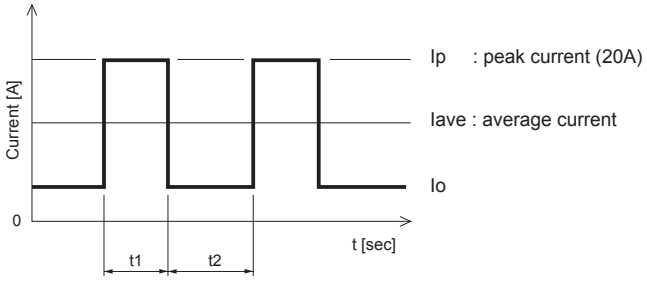
Model	Harness model
SNA-01	H-OU-8
SNA-03	H-OU-8
SNA-06	H-OU-9
SNR-10	H-OU-18

※ The same harness model applies to both input and output.

※ Sold in units of 1 piece.

5 Peak current (SNR)

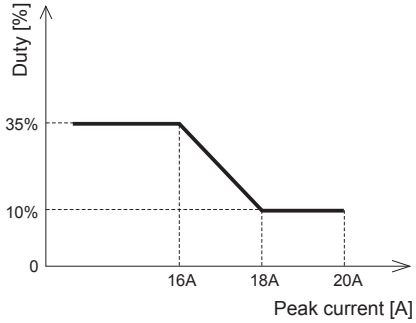
■ Peak current is possible to draw as below.



$$t1 \leqq 10\ [\text{sec}],\ Iave = \frac{Ip \cdot t1 + Io \cdot t2}{t1 + t2} \leqq \text{rated current}$$

$$\frac{t1}{t1 + t2} \leqq \text{Duty}$$

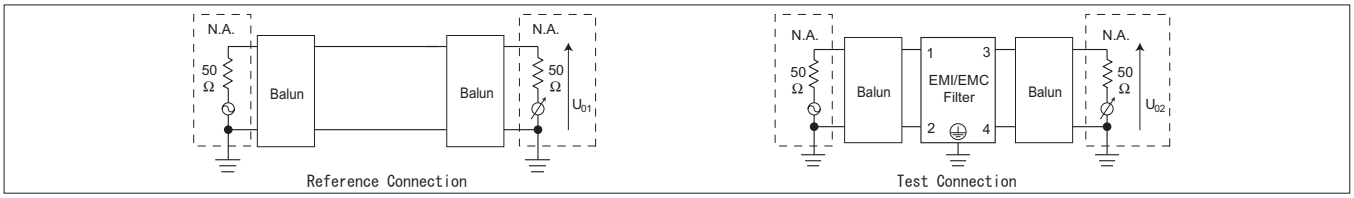
Duty is depended on peak current, refer to below chart.



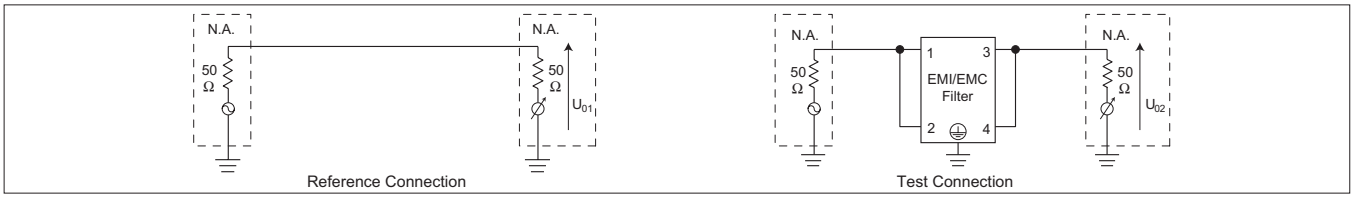
(1) Attenuation Characteristic(Static characteristic)

※Attenuation= 20log(U_{01}/U_{02})[dB]
U_{01} : Voltage in state without filters
U_{02} : Voltage in state which added filters
※N.A. : Network analyzer

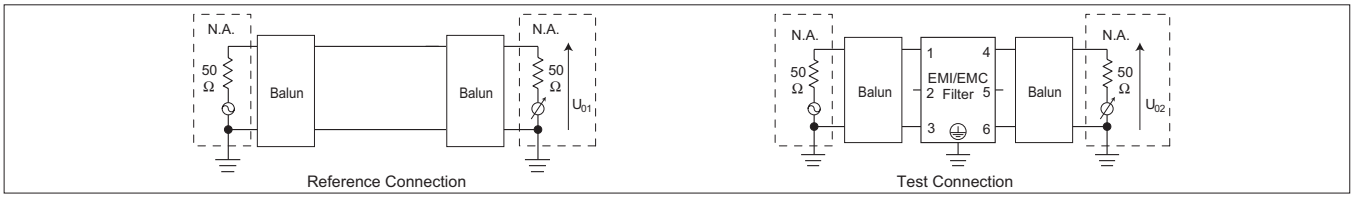
■Object product : Single phase input type (Differential mode)



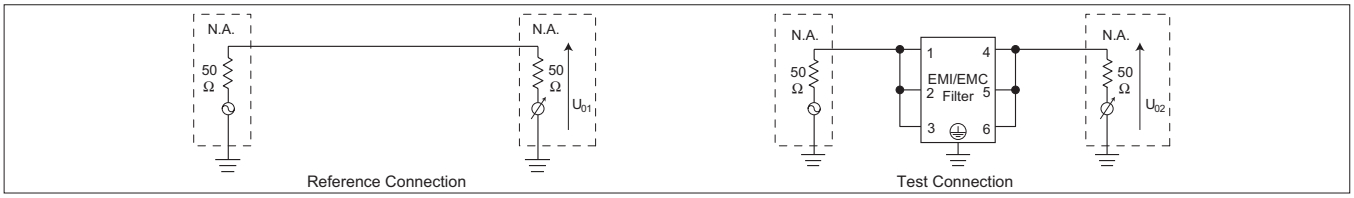
■Object product : Single phase input type (Common mode)



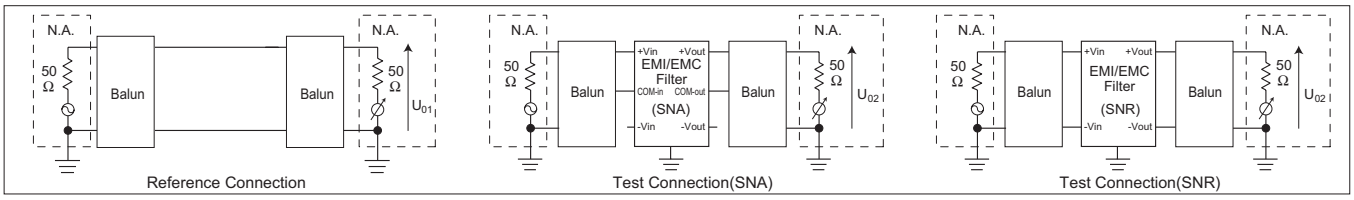
■Object product : Three phase input type (Differential mode)



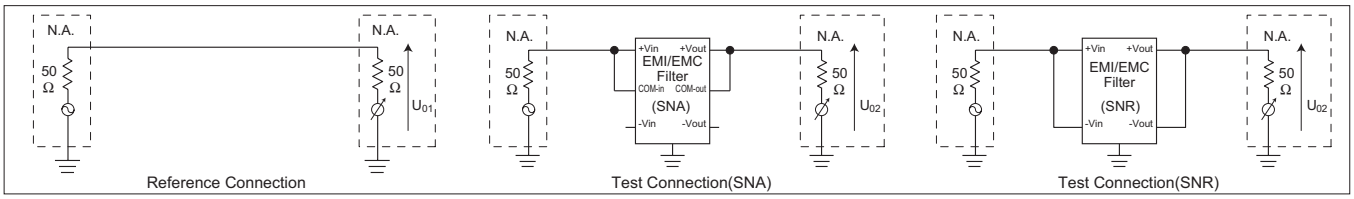
■Object product : Three phase input type (Common mode)



■Object product : DC input type (Differential mode)



■Object product : DC input type (Common mode)



(2) Pulse Attenuation Characteristic