

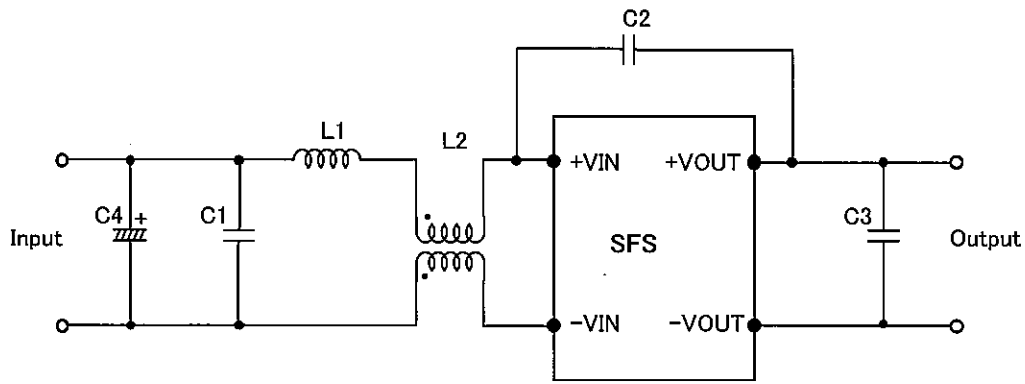
**SFS10/15/20 series EMI/EMS Test result**

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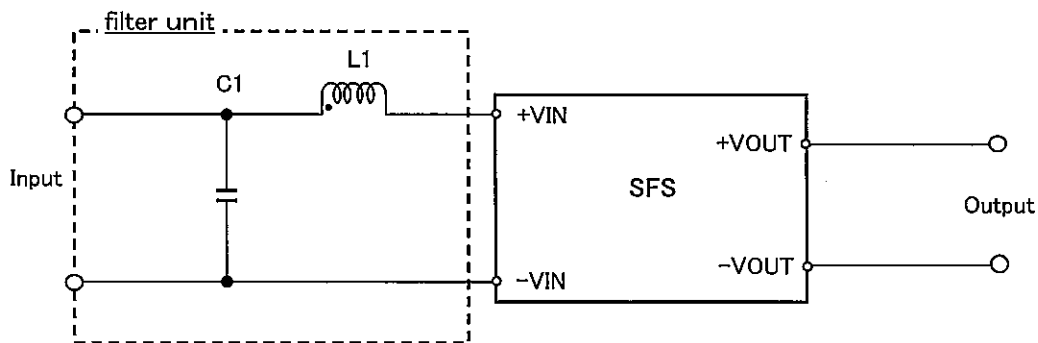
No.	Test item	Conditions	Conditions of Acceptability	Result
1	Line conduction	(1) Rated input (2) Rated load (3) Ambient temp. 25±10°C (4) Testing circuitry Fig.1	(1)Meets the undermentioned standard. VCCI classA CISPR22 classA , EN55022-A	OK
2	Radiated emission	(1) Rated input (2) Rated load (3) Ambient temp. 25±10°C (4) Testing circuitry Fig.1	(1)Meets the undermentioned standard. VCCI classA CISPR22 classA , EN55022-A	OK
3	Static electricity immunity test (EN61000-4-2)	(1) Rated input (2) Rated load (3) Ambient temp. 25±10°C (4) Contact discharge voltage 8[kV] (EN61000-4-2 Level 4) (5) Testing circuitry Fig.2	(1)No protection circuit failure. (2)No output voltage drop with control circuit failure. (3)No any other function failure	OK
4	Radiated, radio-frequency, electromagnetic field immunity test (EN61000-4-3)	(1) Rated input (2) Rated load (3) Ambient temp. 25±10°C (4)Testing field strength 10[V/m] (EN61000-4-3 Level 3) (5) Testing circuitry Fig.2	(1)No protection circuit failure. (2)No output voltage drop with control circuit failure. (3)No any other function failure	OK
5	Electrical fast transient/ burst immunity test (EN61000-4-4)	(1) Rated input (2) Rated load (3) Ambient temp. 25±10°C (4) Test peak voltage 4[kV] (IEC61000-4-4 Level 4) (5) Testing circuitry Fig.2	(1)No protection circuit failure. (2)No output voltage drop with control circuit failure. (3)No any other function failure	OK
6	Surge immunity test (EN61000-4-5)	(1) Rated input (2) Rated load (3) Ambient temp. 25±10°C (4) Test voltage Line to line 2[kV] (Level 3) (5) Testing circuitry Fig.3	(1)The power supply is not stop (2)Circuit does not malfunction. (3)No abnormality of the insulation destruction etc. (4)Parts are no damaged.	OK

OEMI/EMS testing circuitry



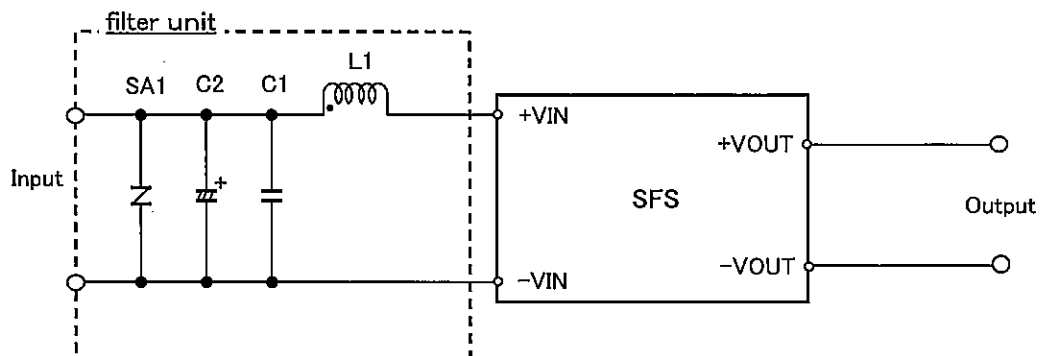
- C1: 1  $\mu$ F 100V Ceramic capacitor
- C2: 2200pF 630V Ceramic capacitor
- C3: 12/15 0.1  $\mu$ F 50V Ceramic capacitor
- : Others 22  $\mu$ F 16V Ceramic capacitor
- C4: 10  $\mu$ F 100V Electric capacitor
- L1: 1  $\mu$ H 2.4A Inductor
- L2: ZJYS51R5-2PT : TDK or equivalent.

Fig.1 Testing circuitry (from No.1 and No.2)



- C1 : 1  $\mu$ F 100V Ceramic capacitor
- L1 : 1  $\mu$ H 2.8A Inductor

Fig.2 Testing circuitry (from No.3 to No.5)



- C1 : 1  $\mu$ F 100V Ceramic capacitor
- C2 : 330  $\mu$ F 100V Electric capacitor
- L1 : 1  $\mu$ H 2.8A Inductor
- SA1 : ERZV10D101(PANASONIC CO.,LTD.) or equivalent.

Fig.3 Testing circuitry (No.6)