

CHS80 series EMI/EMS Test resultApproved Yoshimichi Hirokawa
Yoshimichi HirokawaPrepared : Sakae Minamide
Sakae Minamide

| No. | Test item | Conditions | Conditions of Acceptability | Result |
|-----|--|--|--|--------|
| 1 | Line conduction | (1) Rated input(DC48V) (2) Rated load (3) Ambient temp. $25\pm 10^{\circ}\text{C}$ (4) Testing circuitry Fig.1 | (1)Meets the undermentioned standard. FCC Part15 classA , VCCI classA CISPR11 classA , EN55011-A | OK |
| 2 | Radiated emission | (1) Rated input(DC48V) (2) Rated load (3) Ambient temp. $25\pm 10^{\circ}\text{C}$ (4) Testing circuitry Fig.1 | (1)Meets the undermentioned standard. FCC Part15 classA , VCCI classA CISPR11 classA , EN55011-A | OK |
| 3 | Static electricity immunity test (EN61000-4-2) | (1) Rated input(DC48V) (2) Rated load (3) Ambient temp. $25\pm 10^{\circ}\text{C}$ (4) Contact discharge voltage 8[kV] (EN61000-4-2 Level 4) (5) Testing circuitry Fig.1 | (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(DC48V) (2) Rated load (3) Ambient temp. $25\pm 10^{\circ}\text{C}$ (4)Testing field strength 10[V/m] (EN61000-4-3 Level 3) (5) Testing circuitry Fig.1 | (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(DC48V) (2) Rated load (3) Ambient temp. $25\pm 10^{\circ}\text{C}$ (4) Test peak voltage 4[kV] (IEC61000-4-4 Level 4) (5) Testing circuitry Fig.1 | (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(DC48V) (2) Rated load (3) Ambient temp. $25\pm 10^{\circ}\text{C}$ (4) Test voltage Line to line 2[kV] (Level 3) Line to earth 4[kV] (Level 4) (5) Testing circuitry Fig.2 | (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 |

○ Testing circuitry

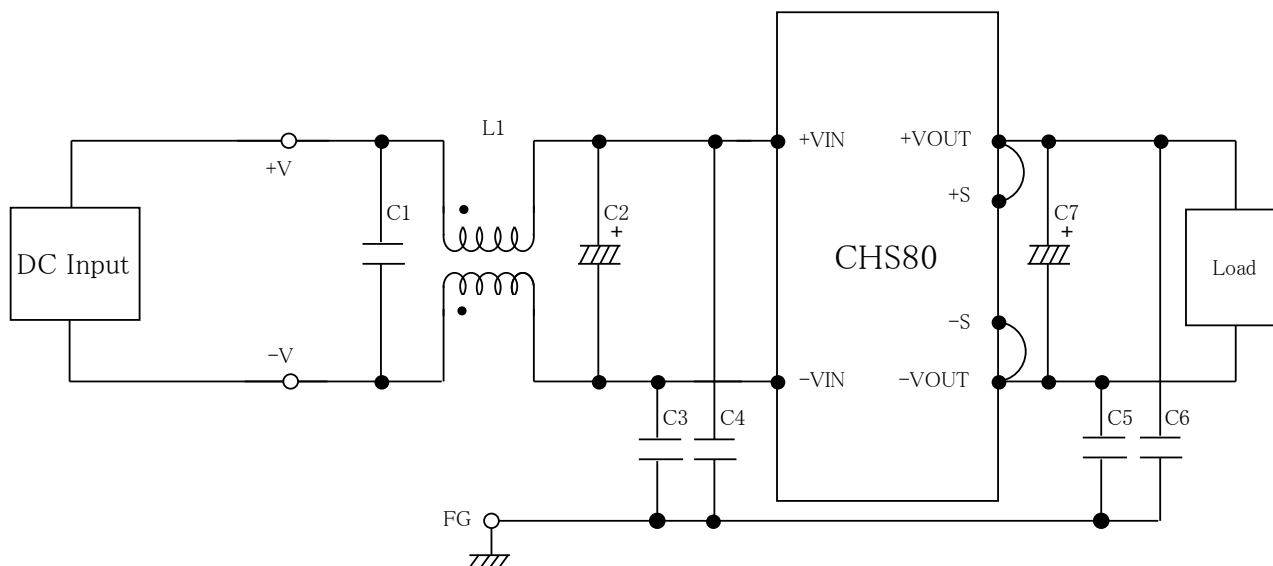


Fig.1 Testing circuitry

- L1 : 1mH SC-05-10J (TOKIN)
- C1 : 250V 2.2 μ F FPD22E225J4 (NITSUKO)
- C2 : 100V 33 μ F PWseries (nichicon)
- C3,C4 : 630V 0.068 μ F FPD22J683J4 (NITSUKO)
- C5,C6 : 630V 0.033 μ F FPD22J333J4 (NITSUKO)
- C7 : 50V 10 μ F PMseries (nichicon)

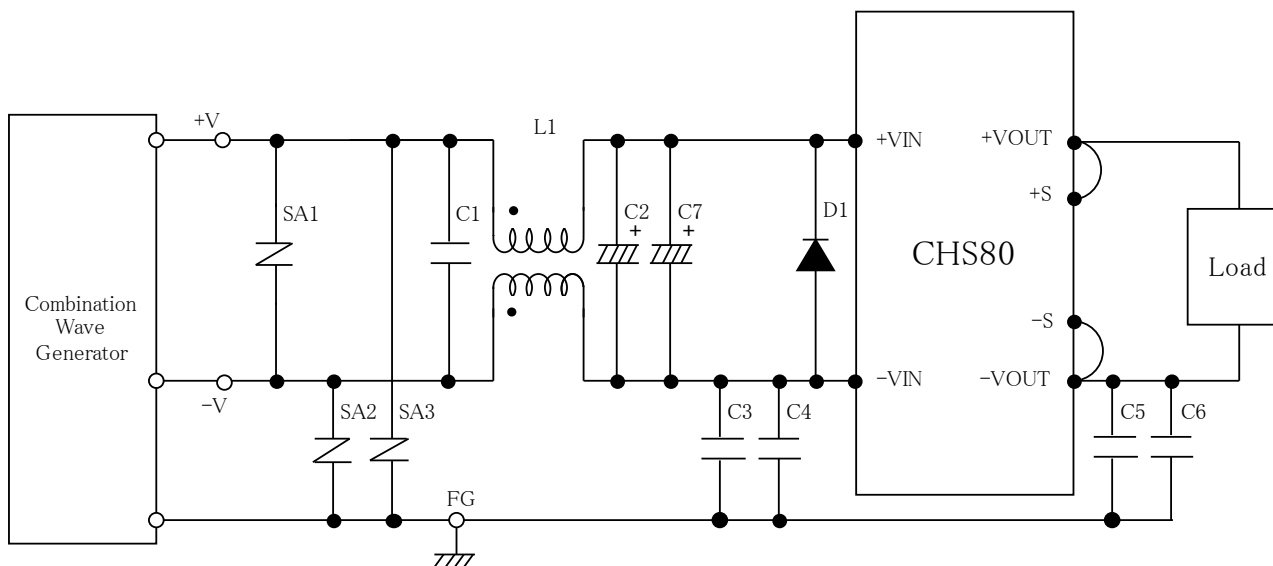


Fig.2 Surge immunity Testing circuitry

- L1 : 1mH SC-05-10J (TOKIN)
- C1 : 250V 2.2 μ F FPD22E225J4 (NITSUKO)
- C2,C7 : 100V 100 μ F PWseries (nichicon)
- C3,C4 : 630V 0.068 μ F FPD22J683J4 (NITSUKO)
- C5,C6 : 630V 0.033 μ F FPD22J333J4 (NITSUKO)
- D1 : ERD32-02 (FUJIELECTRIC)
- SA1.SA2.SA3 : ERZV10D101 (Panasonic)