

**MGXS6 Series EMI/EMS Test results**Approved : Takayuki Fukuda  
Takayuki FukudaPrepared : Masumi Kitamura  
Masumi Kitamura

No.	Test item	Conditions	Conditions of Acceptability	Result
1	Line conduction	(1) Rated input (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 CISPR32 classA , EN55032-A	ok
2	Radiated emission	(1) Rated input (2) Rated load (3) Ambient temp. $25 \pm 10^{\circ}\text{C}$ (4) Testing circuitry Fig.1	(1)Meets the under mentioned standard. FCC Part15 classA , VCCI classA CISPR32 classA , EN55032-A	ok
3	Static electricity immunity test (EN61000-4-2)	(1) Rated input (2) Rated load (3) Ambient temp. $25 \pm 10^{\circ}\text{C}$ (4) Contact discharge voltage 4[kV] (EN61000-4-2 Level 2) (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 (2) Rated load (3) Ambient temp. $25 \pm 10^{\circ}\text{C}$ (4)Testing field strength (Level 3) ① 10 [V/m] (80MHz to 1.0GHz) ② 3 [V/m] (1.4GHz to 2.0GHz) ③ 1 [V/m] (2.0GHz to 2.7GHz) (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 (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 (2) Rated load (3) Ambient temp. $25 \pm 10^{\circ}\text{C}$ (4) Test voltage Line to line 2[kV] (Level 3) (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

## Conditions

Test : Line conduction , Radiated emission  
Static electricity immunity test  
Radiated, radio-frequency, electromagnetic field immunity test  
Electrical fast transient / burst immunity test

Model Name : MGXS6□□

○Testing circuitry

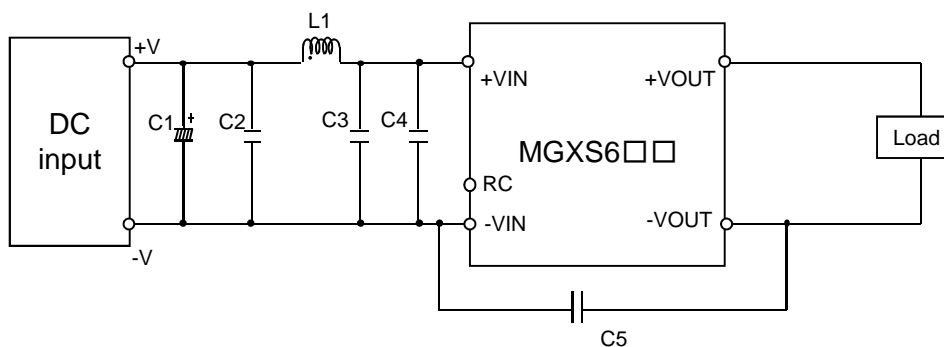


Fig.1 Testing circuitry

- C1 : MGXS624□□ 100V 39  $\mu$  F Electric capacitor (LXVseries NIPPON CHEMI-CON)
- C2 : MGXS624□□ 100V 2.2  $\mu$  F Ceramic capacitor (GRM31CR72A225K MURATA MANUFACTURING)
- C3 : MGXS624□□ 100V 2.2  $\mu$  F Ceramic capacitor (GRM31CR72A225K MURATA MANUFACTURING)
- C4 : MGXS624□□ 100V 2.2  $\mu$  F Ceramic capacitor (GRM31CR72A225K MURATA MANUFACTURING)
- C5 : MGXS624□□ 2kV 2200pF Ceramic capacitor (GR443QR73D222K MURATA MANUFACTURING)
- L1 : MGXS624□□ 1050mA 22  $\mu$  H Inductor(LQH5BPN220MT0 MURATA MANUFACTURING)



## Conditions

Test : Surge immunity test

Model Name : MGXS6□□

○Testing circuitry

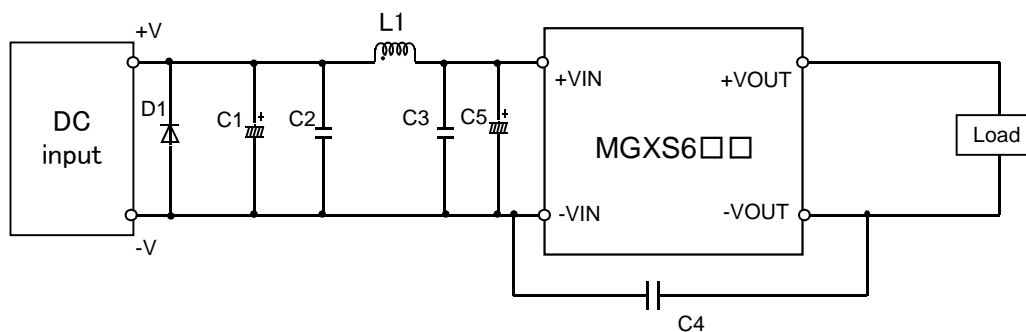


Fig.2 Testing circuitry

C1 :	MGXS624□□	100V 180 $\mu$ F Electric capacitor (LXVseries NIPPON CHEMI-CON)
C2 :	MGXS624□□	100V 2.2 $\mu$ F Ceramic capacitor (GRM31CR72A225K MURATA MANUFACTURING)
C3 :	MGXS624□□	100V 2.2 $\mu$ F Ceramic capacitor (GRM31CR72A225K MURATA MANUFACTURING)
C4 :	MGXS624□□	2kV 2200pF Ceramic capacitor (GR443QR73D222K MURATA MANUFACTURING)
C5 :	MGXS624□□	100V 180 $\mu$ F Electric capacitor (LXVseries NIPPON CHEMI-CON)
L1 :	MGXS624□□	1050mA 22 $\mu$ H Inductor(LQH5BPN220MT0 MURATA MANUFACTURING)
D1 :	MGXS648□□	400V 3A Diode(S3L40U SHINDENGEN)