

SU3/SUC3 Series EMI/EMS Test resultsApproved : *Tetsuo Sugimori*Prepared : *Takahiro Ohara*

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 FCC Part15 classA , 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 FCC Part15 classA , 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 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±10°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 (2) Rated load (3) Ambient temp. 25±10°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±10°C (4) Test voltage Line to line 2[kV] (Level 4) (5) Testing circuitry Fig.2	(1)The power supply is not stc (2)Circuit does not malfunction. (3)No abnormality of the insulation destruction etc. (4)Parts are no damaged.	OK

○ Testing circuitry

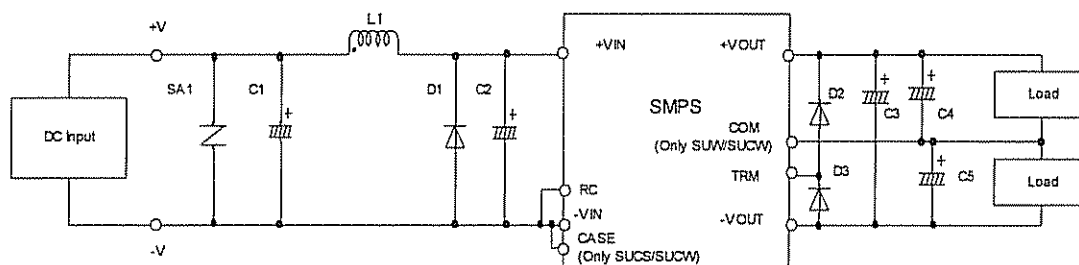


Fig.1 Testing circuitry

C1	:	SU□/SUC□305	25V	1000 μ F	UPW1E102M	(NICHICON)
		SU□/SUC□312	25V	470 μ F	UPW1E471M	(NICHICON)
		SU□/SUC□324	50V	100 μ F	UPW1H101M	(NICHICON)
		SU□/SUC□348	100V	33 μ F	UPW2A330M	(NICHICON)
C2	:	SU□/SUC□305	16V	220 μ F	UPW1C221M	(NICHICON)
		SU□/SUC□312	25V	100 μ F	UPW1E101M	(NICHICON)
		SU□/SUC□324	50V	47 μ F	UPW1H470M	(NICHICON)
		SU□/SUC□348	100V	22 μ F	UPW2A220M	(NICHICON)
SA1	:	SU□/SUC□305	18V	ERZV10D180	(MATSUSHITA ELECTRONIC)	
		SU□/SUC□312	27V	ERZV10D270	(MATSUSHITA ELECTRONIC)	
		SU□/SUC□324	47V	ERZV10D470	(MATSUSHITA ELECTRONIC)	
		SU□/SUC□348	100V	ERZV10D101	(MATSUSHITA ELECTRONIC)	
L1	:	SU□/SUC□305	2.2 μ H	CY3H-2R2	(KORIN ELECTRONICS)	
		SU□/SUC□312	4.7 μ H	CY3H-4R7	(KORIN ELECTRONICS)	
		SU□/SUC□324	10 μ H	CY3H-100	(KORIN ELECTRONICS)	
		SU□/SUC□348	10 μ H	CY3H-100	(KORIN ELECTRONICS)	
D1	:		3A	200V	ERD32-02	(FUJI ELECTRIC)
D2,D3	:		1A	100V	S5566B	(TOSHIBA)
C3	:	SUS/SUCS3053R3	25V	220 μ F	UPW1E221M	(NICHICON)
		SUS/SUCS30505	25V	220 μ F	UPW1E221M	(NICHICON)
		SUS/SUCS30512	25V	220 μ F	UPW1E221M	(NICHICON)
		SUS/SUCS30515	25V	220 μ F	UPW1E221M	(NICHICON)
C4,C5	:	SUS/SUCW30512	25V	100 μ F	UPW1E101M	(NICHICON)
		SUS/SUCW30515	25V	100 μ F	UPW1E101M	(NICHICON)

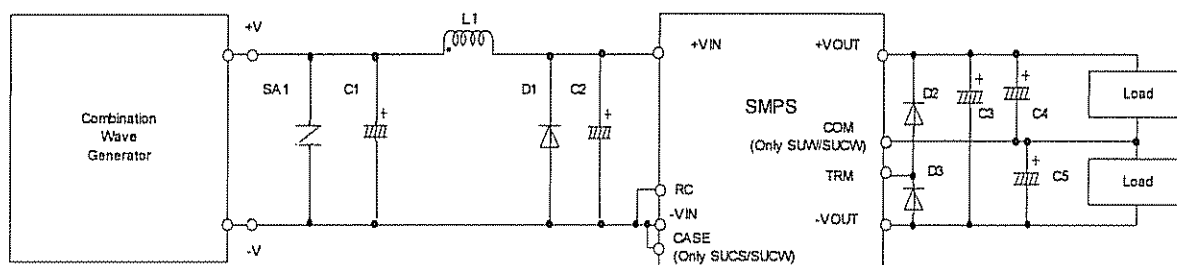


Fig.2 Surge immunity testing circuitry

C1	:	SU□/SUC□305	25V	1000 μ F	UPW1E102M	(NICHICON)
		SU□/SUC□312	25V	470 μ F	UPW1E471M	(NICHICON)
		SU□/SUC□324	50V	100 μ F	UPW1H101M	(NICHICON)
		SU□/SUC□348	100V	33 μ F	UPW2A330M	(NICHICON)
C2	:	SU□/SUC□305	16V	220 μ F	UPW1C221M	(NICHICON)
		SU□/SUC□312	25V	100 μ F	UPW1E101M	(NICHICON)
		SU□/SUC□324	50V	47 μ F	UPW1H470M	(NICHICON)
		SU□/SUC□348	100V	22 μ F	UPW2A220M	(NICHICON)
SA1	:	SU□/SUC□305	18V	ERZV10D180	(MATSUSHITA ELECTRONIC)	
		SU□/SUC□312	27V	ERZV10D270	(MATSUSHITA ELECTRONIC)	
		SU□/SUC□324	47V	ERZV10D470	(MATSUSHITA ELECTRONIC)	
		SU□/SUC□348	100V	ERZV10D101	(MATSUSHITA ELECTRONIC)	
L1	:	SU□/SUC□305	2.2 μ H	CY3H-2R2	(KORIN ELECTRONICS)	
		SU□/SUC□312	4.7 μ H	CY3H-4R7	(KORIN ELECTRONICS)	
		SU□/SUC□324	10 μ H	CY3H-100	(KORIN ELECTRONICS)	
		SU□/SUC□348	10 μ H	CY3H-100	(KORIN ELECTRONICS)	
D1	:		3A	200V	ERD32-02	(FUJI ELECTRIC)
D2,D3	:		1A	100V	S5566B	(TOSHIBA)
C3	:	SUS/SUCS3053R3	25V	220 μ F	UPW1E221M	(NICHICON)
		SUS/SUCS30505	25V	220 μ F	UPW1E221M	(NICHICON)
		SUS/SUCS30512	25V	220 μ F	UPW1E221M	(NICHICON)
		SUS/SUCS30515	25V	220 μ F	UPW1E221M	(NICHICON)
C4,C5	:	SUS/SUCW30512	25V	100 μ F	UPW1E101M	(NICHICON)
		SUS/SUCW30515	25V	100 μ F	UPW1E101M	(NICHICON)