

RELIABILITY TEST REPORT

TEST REPORT

Company : SYNC, POWER CORP.
 Model Name : SP6019
 Date Received : 2009.02.06
 Date Tested : 2009.02.09

TESTING LABORATORY IS ACCREDITED BY:

IEC/IECQ 17025 certificate of independent test laboratory approval

Certificate No. : T1091

ISO 9001 certificate is approved by TUV CERT certification body of TUV NORD Cert GmbH

WE HEREBY CERTIFY THAT:

The test(s) shown in the attachment were conducted according to the indicating procedures. We assume full responsibility for the accuracy and completeness of these tests and vouch for the qualifications of all personnel performing them.

	Name	Signature	Date
Test Engineer	Jay Fang	Reliability Test Engineer <i>Jay Fang</i>	2009/02/06
Section Manager	Even Lin	Reliability Test Engineer <i>Even Lin</i>	2009/02/09

Note :

1. This report will be invalid if reproduced in whole or in part.
2. This report refers only to the specimen(s) submitted to test, and is invalid if used separately.
3. This report is ONLY valid with the examination seal and signature of this institute.
4. The tested specimen(s) will only be preserved for thirty days from the date issued, if not collected by the applicant.



Integrated Service Technology Inc.
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No.:T1091
Revision: A

Report No. : HS0902060010A

Report No. : RAC9800295-E

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Applicant/Department: SYNC, POWER CORP.	
Product	: SP6019
Testing Item	: ESD-MM
Package/Pin Count:	SOP-8
Test Method	: JEDEC EIA/JESD22-A115
Failure Criteria	: FOR V CHANGE AT $1\mu\text{A} \pm 30\%$
Test Voltage	: 50V ~ 2000V (\pm), Step : 50V (\pm)



ESD-MM Testing Report

Test Equipment:

KEYTEK ZAPMASTER #10-6066

Environmental Condition of Laboratory:

Temperature: 25°C±5°C

Humidity: 55%±10% RH

Test Condition:

VSS (+)

VSS (-)

VCC (+)

VCC (-)

VCC – VSS (+)

VCC – VSS (-)

Test Result:

MODEL: MM	ESD SENSITIVITY PASS : <u>+200V</u>		V CLASS: <u>A</u>
PIN COMBINATION	SAMPLE SIZE	PASSED VOLTS	NOTE: FOR EIAJ TEST NO CLASSIFICATION CLASS A: < 200V CLASS B: 200V TO < 400V CLASS C: ≥ 400V
VSS (+)	3	+200V	
VSS (-)	3	-200V	
VCC (+)	3	+200V	
VCC (-)	3	-200V	
VCC – VSS (+)	3	+550V	
VCC – VSS (-)	3	-450V	

I/O:1-2,4,6,8
VCC:3,7
VDD:7

VR:3
VSS:5

		VSS (+)			(UNIT: V)
Test Pin	FAIL VOLTAGE	#1	#2	#3	
	1	350	400	400	
	2	200	200	200	
	4	200	200	250	
	6	200	200	250	
	8	300	300	300	

		VSS (-)			(UNIT: V)
Test Pin	FAIL VOLTAGE	#1	#2	#3	
	1	-500	-650	-700	
	2	-350	-250	-250	
	4	-200	-200	-200	
	6	-400	-450	-500	
	8	-450	-450	-450	

		VCC (+)			(UNIT: V)
Test Pin	FAIL VOLTAGE	#1	#2	#3	
	1	700	700	600	
	2	400	350	350	
	4	250	300	250	
	6	400	350	450	
	8	350	350	350	

		VCC (-)			(UNIT: V)
Test Pin	FAIL VOLTAGE	#1	#2	#3	
	1	-400	-600	-700	
	2	-500	-450	-450	
	4	-300	-300	-300	
	6	-250	-250	-250	
	8	-400	-450	-400	

		VCC - VSS (+)			(UNIT: V)
Test Pin	FAIL VOLTAGE	#1	#2	#3	
	3	600	600	600	
	7	1950	1900	1950	



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VCC – VSS (-)				
(UNIT: V)				
Test Pin	FAIL VOLTAGE	#1	#2	#3
	3	-600	-500	-550
	7	-1550	-1750	-1800