

# 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.**  
Reliability Engineering Division  
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**No.:T1091**  
**Revision: A**

Report No. : HS0902060010A

Report No. : RAC9800295-E

Page 1 of 4

## RELIABILITY TEST REPORT

<b>Applicant/Department:</b> SYNC, POWER CORP.	
<b>Product</b>	: SP6019
<b>Testing Item</b>	: ESD-HBM
<b>Package/Pin Count:</b>	SOP-8
<b>Test Method</b>	: MIL-STD-883G Method 3015.7
<b>Failure Criteria</b>	: FOR V CHANGE AT $1\mu\text{A} \pm 30\%$
<b>Test Voltage</b>	: 500V ~ 8000V ( $\pm$ ), Step : 500V ( $\pm$ )



## ESD-HBM 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: HBM	ESD SENSITIVITY PASS : <b>-2000V</b>		V CLASS: <u>  2  </u>
PIN COMBINATION	SAMPLE SIZE	PASSED VOLTS	<b>NOTE:</b> FOR EIAJ TEST NO CLASSIFICATION CLASS 0: < 250V CLASS 1A: 250V TO 499V CLASS 1B: 500V TO 999V CLASS 1C: 1000V TO 1999V CLASS 2: 2000V TO 3999V CLASS 3A: 4000V TO 7999V CLASS 3B: ≥ 8000V
VSS (+)	3	+2500V	
VSS (-)	3	-3000V	
VCC (+)	3	+6500V	
VCC (-)	3	-2000V	
VCC – VSS (+)	3	+3500V	
VCC – VSS (-)	3	-8000V	

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	4500	5500	5000	
	2	3000	3000	3000	
	4	3000	3000	3000	
	6	6500	6000	6000	
	8	5500	5500	5500	

		VSS (-)			(UNIT: V)
Test Pin	FAIL VOLTAGE	#1	#2	#3	
	1	PASS	PASS	PASS	
	2	-5000	-5000	-4500	
	4	-4000	-3500	-4000	
	6	PASS	PASS	PASS	
	8	PASS	PASS	PASS	

		VCC (+)			(UNIT: V)
Test Pin	FAIL VOLTAGE	#1	#2	#3	
	1	PASS	PASS	PASS	
	2	PASS	PASS	PASS	
	4	7000	7000	7000	
	6	PASS	PASS	PASS	
	8	8000	8000	8000	

		VCC (-)			(UNIT: V)
Test Pin	FAIL VOLTAGE	#1	#2	#3	
	1	-4500	-4500	-4500	
	2	-4500	-4500	-4500	
	4	-4000	-4000	-4000	
	6	-3000	-2500	-2500	
	8	PASS	PASS	PASS	

		VCC - VSS (+)			(UNIT: V)
Test Pin	FAIL VOLTAGE	#1	#2	#3	
	3	5500	4000	5500	
	7	PASS	PASS	PASS	



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Page 4 of 4

VCC – VSS (-)				
(UNIT: V)				
Test Pin	FAIL VOLTAGE	#1	#2	#3
	3	PASS	PASS	PASS
	7	PASS	PASS	PASS