

RELIABILITY TEST REPORT

TEST REPORT

Company : SYNC, POWER CORP.
 Model Name : SP6018
 Date Received : 2009.08.13
 Date Tested : 2009.08.20

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>	2009/08/13
Section Manager	Even Lin	Reliability Test Engineer <i>Even Lin</i>	2009/08/20

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 & Failure Analysis Group
1F, No.19, Pu-ding Rd., Hsin - chu City, Taiwan, R.O.C.
Tel: 886-3-578-2266, Fax: 886-3-5770988
<http://www.istgroup.com>



No.:T1091
Revision:A

Report No. : HS0908130184A

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Applicant/Department: SYNC, POWER CORP.		
Product	: SP6018	
Testing Item	: ESD-HBM	Package/Pin Count: SOP-8
Test Method	: MIL-STD-883G Method 3015.7	
Failure Criteria	: FOR V CHANGE AT $1\mu\text{A} \pm 30\%$	
Test Voltage	: 500V ~ 8000V (\pm), Step: 500V (\pm)	



ESD-HBM Testing Report

Test Equipment:

KEYTEK ZAPMASTER #1-6359

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 : <u>+2000V</u>		V CLASS: <u>2</u>
PIN COMBINATION	SAMPLE SIZE	PASSED VOLTS	NOTE: 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	+2000V	
VSS (-)	3	-3000V	
VCC (+)	3	+3500V	
VCC (-)	3	-2500V	
VCC – VSS (+)	3	+8000V	
VCC – VSS (-)	3	-8000V	

ALL:1-4,6,8
 VCC:7

VSS:5

VSS (+) (UNIT:V)									
Test Pin	FAIL VOLTAGE	#1	#2	#3	Test Pin	FAIL VOLTAGE	#1	#2	#3
1		4500	5000	4500	4		2500	2500	2500
2		3500	3500	3500	6		6000	6500	5500
3		5500	5000	5000	8		5500	5500	5000

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

VCC (+) (UNIT:V)									
Test Pin	FAIL VOLTAGE	#1	#2	#3	Test Pin	FAIL VOLTAGE	#1	#2	#3
1		7500	7500	8000	4		4000	4000	4500
2		5500	4500	5500	6		PASS	PASS	PASS
3		7000	4500	7000	8		7000	4500	7500

VCC (-) (UNIT:V)									
Test Pin	FAIL VOLTAGE	#1	#2	#3	Test Pin	FAIL VOLTAGE	#1	#2	#3
1		PASS	PASS	PASS	4		-3500	-3500	-3500
2		-4500	-5000	-4500	6		-3500	-3000	-4000
3		PASS	-4500	PASS	8		PASS	PASS	PASS

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

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