



# 宜特科技股份有限公司



No.:T1091

## Integrated Service Technology Inc.

TEL : (03) 578-2266

RA No: 9503686-E

FAX : (03) 578-2299

Date : 11/07/2006

Email: esd@isti.com.tw

Test Site Address: 1F, No.22, Pu-Ding Rd., Hsin-Chu, Taiwan, R.O.C.

### 可靠度測試報告

### RELIABILITY TEST REPORT

<b>Applicant/Department:</b> 擎力科技股份有限公司	
<b>Address</b> : 台北市南港區園區街 3-2 號 9F-5	
<b>Product</b> : SP6013A	
<b>Testing Item</b> : ESD-HBM	<b>Package/Pin Count:</b> SOP/8
<b>Application Date</b> : 11/06/2006	<b>Date Finished</b> : 11/07/2006
<b>Test Method</b> : MIL-STD-883F Method 3015.7	
<b>Failure Criteria</b> : FOR V CHANGE AT 1μA ±30%	
<b>Test Voltage</b> : 500V~8000V(±) , Step:500V(±)	

Testing Item
Random ESD-HBM Test.....P2

**Remark:**

- This report refers only to the specimen submitted to testing, and be invalid as separately used.

<b>Testing Engineer:</b>	Reliability Test Engineer <i>Jay Fang</i>
<b>Report Review:</b>	Reliability Test Engineer <i>Kosa Lin</i>
<b>Laboratory Head:</b>	Manager <i>Kevin Tsui</i>



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### ESD-HBM Testing Report

#### Test Equipment:

KEYTEK ZAPMASTER #1-6066

#### 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 : <u>-2500V</u>		V CLASS: <u>2</u>
PIN COMBINATION	SAMPLE SIZE	PASSED VOLTS	NOTE: FOR MIL-STD CLASS1: 0V-1999V CLASS2: 2000V-3999V CLASS3: 4000V-TO ABOVE
VSS (+)	3	+3000V	
VSS (-)	3	-5000V	
VCC (+)	3	+5500V	
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		+6000	+6000	+6500	4		+4000	+5500	+6500
2		+3500	+3500	+3500	6		+6000	+5500	+4000
3		+5500	+6000	+5000	8		+6000	+6000	+6000

VSS (-) (UNIT:V)									
Test Pin	FAIL VOLTAGE	#1	#2	#3	Test Pin	FAIL VOLTAGE	#1	#2	#3
1		PASS	PASS	PASS	4		PASS	PASS	PASS
2		-5500	-5500	-5500	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		+8000	+8000	+8000	4		PASS	+7000	+7000
2		+6500	+7000	+7000	6		PASS	PASS	PASS
3		+6000	+7000	+7500	8		PASS	PASS	PASS

VCC (-) (UNIT:V)									
Test Pin	FAIL VOLTAGE	#1	#2	#3	Test Pin	FAIL VOLTAGE	#1	#2	#3
1		PASS	PASS	PASS	4		PASS	PASS	PASS
2		-5500	-5500	-5500	6		-3500	-3000	-3500
3		PASS	PASS	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