



# 宜特科技股份有限公司



## Integrated Service Technology Inc.

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

RA No: 9503685-E  
 Date : 11/07/2006

### 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> : SP6013	
<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 #1-6380

#### 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>+2500V</b>		V CLASS: <u>  2  </u>
PIN COMBINATION	SAMPLE SIZE	PASSED VOLTS	<b>NOTE:</b> FOR MIL-STD CLASS1: 0V-1999V CLASS2: 2000V-3999V CLASS3: 4000V-TO ABOVE
VSS (+)	4	+2500V	
VSS (-)	3	-5000V	
VCC (+)	3	+5000V	
VCC (-)	3	-3000V	
VCC – VSS (+)	4	+3500V	
VCC – VSS (-)	3	-8000V	

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

VSS:5

VSS (+)											
(UNIT:V)											
Test Pin	FAIL VOLTAGE	#1	#2	#3	#4	Test Pin	FAIL VOLTAGE	#1	#2	#3	#4
1		+6000	+5000	+7000	+6500	4		+6000	+5000	+5000	+7000
2		+3500	+3500	+3500	+3500	6		+2500	+6500	+5500	+2500
3		+5000	+5000	+5000	+5000	8		+5500	+5500	+5500	+5500

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	-6000	-6000	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	+8000	PASS	4		+5500	PASS	+7000
2		+6500	+6000	+6500	6		PASS	PASS	PASS
3		+6000	+6000	+6000	8		+8000	+8000	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		-6000	-6000	-5500	6		-6000	-3500	-4000
3		PASS	PASS	PASS	8		PASS	PASS	PASS

VCC – VSS (+)					
(UNIT: V)					
Test Pin	FAIL VOLTAGE	#1	#2	#3	#4
7		+5500	+4000	+6500	+5500

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