



宜特科技股份有限公司



Integrated Service Technology Inc.

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Email: esd@isti.com.tw

RA No: 9402739-E
Date : 10/19/2005

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

Applicant/Department: 擎力科技股份有限公司	
Address : 台北市南港區園區街 3-2 號 9F-5	
Product : SP6002	
Testing Item : ESD-HBM	Package/Pin Count: SOP-8
Application Date : 10/17/2005	Date Finished : 10/19/2005
Test Method : MIL-STD-883F Method 3015.7	
Failure Criteria : FOR V CHANGE AT 1μA ±30%	
Test Voltage : 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.

Reliability Test Engineer	
Testing Engineer: <i>Evon Lin</i>	
Reliability Test Engineer	
Report Review: <i>Kosa Lin</i>	Manager
	Laboratory Head: <i>Frank Wu</i>



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ESD-HBM Testing Report

Test Equipment:

KEYTEK ZAPMASTER #8-6094

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 : +6000V		V CLASS: <u> 1 </u>
PIN COMBINATION	SAMPLE SIZE	PASSED VOLTS	NOTE: FOR MIL-STD CLASS1: 0V-1999V CLASS2: 2000V-3999V CLASS3: 4000V-TO ABOVE
VSS (+)	3	+6000V	
VSS (-)	3	-7000V	
VCC (+)	3	+7000V	
VCC (-)	3	-6000V	
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		+8000	+8000	PASS	4		+2000	+2000	+2000
2		+3500	+3500	+7000	6		+6000	+6000	+6000
3		+6500	+6000	+6000	8		+7500	+7500	+7500

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		PASS	PASS	PASS	6		PASS	PASS	PASS
3		PASS	PASS	PASS	8		PASS	-7500	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		+8000	PASS	+7500	6		PASS	PASS	PASS
3		+8000	PASS	+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		-6500	-6000	-6000
2		PASS	PASS	PASS	6		-6000	-6000	-6000
3		PASS	PASS	PASS	8		-7000	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