



宜特科技股份有限公司



Integrated Service Technology Inc.

TEL : (02) 2656-2289

TRA No: 9300104-E

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Date : 11/11/2004

Email: esd@isti.com.tw

Test Site Address: 1F, No. 9, Alley 2, Lane 35, Jihu Rd., Neihu District, Taipei City, Taiwan, R.O.C.

可靠度測試報告

RELIABILITY TEST REPORT

Applicant/Department: 擎力科技	
Address : 台北市南港區園區街 3-2 號 9 樓之 5	
Product : SP6003	
Testing Item : ESD-HBM	Package/Pin Count: SOP-8
Application Date : 11/10/2004	Date Finished : 11/11/2004
Test Method : MIL-STD-883E Method 3015.7	
Failure Criteria : FOR V CHANGE AT 1 μ A \pm 30%	
Test Voltage : 500V~8000(\pm) , Step : 500V(\pm)	

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

Remark:

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

Testing Engineer:	
Report Review:	Laboratory Head:



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No.:A8799

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ESD-HBM Testing Report

Test Equipment:

KEYTEK ZAPMASTER

Environmental Condition of Laboratory:

Temperature: 25°C±5°C

Humidity: 55%±10% RH

Test Condition:

GND (+)

GND (-)

VDD (+)

VDD (-)

VDD-GND (+)

VDD-GND (-)

Test Result:

MODEL: HBM	ESD SENSITIVITY PASS : +4000V		V CLASS: <u>1</u>
PIN COMBINATION	SAMPLE SIZE	PASSED VOLTS	NOTE:
GND (+)	3	+5000V	FOR MIL-STD CLASS1: 0V-1999V CLASS2: 2000V-3999V CLASS3: 4000V-TO ABOVE
GND (-)	3	-8000V	
VDD (+)	3	+8000V	
VDD (-)	5	-4000V	
VDD-GND (+)	3	+7500V	
VDD-GND (-)	3	-8000V	

ALL:1-4,6,8
GND:5

VDD:7

GND (+)				(UNIT:V)
Test Pin	PASS VOLTAGE	#1	#2	#3
1		+8000V	+8000V	+8000V
2		+7000V	+6500V	+7000V
3		+6000V	+6000V	+6000V
4		+6500V	+6500V	+7000V
6		+5000V	+5000V	+5000V
8		+6000V	+6500V	+6000V

GND (-)				(UNIT:V)
Test Pin	PASS VOLTAGE	#1	#2	#3
1		-8000V	-8000V	-8000V
2		-8000V	-8000V	-8000V
3		-8000V	-8000V	-8000V
4		-8000V	-8000V	-8000V
6		-8000V	-8000V	-8000V
8		-8000V	-8000V	-8000V

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

		VDD (-)					(UNIT:V)
Test Pin	PASS VOLTAGE	#1	#2	#3	#4	#5	
1		-4000V	-7500V	-4500V	-5500V	-5000V	
2		-4500V	-4500V	-8000V	-5000V	-8000V	
3		-8000V	-5000V	-5000V	-8000V	-7500V	
4		-8000V	-8000V	-8000V	-8000V	-8000V	
6		-8000V	-8000V	-8000V	-8000V	-8000V	
8		-4500V	-4000V	-4500V	-5000V	-5000V	

VDD-GND (+) (UNIT:V)				
Test Pin	PASS VOLTAGE	#1	#2	#3
7		+8000V	+8000V	+7500V

VDD-GND (-) (UNIT:V)				
Test Pin	PASS VOLTAGE	#1	#2	#3
7		+8000V	+8000V	+8000V