INTEGRATED SERVICE TECHNOLOGY

No.:T1091
Revision:B

RELIABILITY TEST REPORT

TEST REPORT

Company ：RAIO TECHNOLOGY INC.

Model Name ：PM8808

Date Received ：2010.12.23

Date Tested ：2010.01.20

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 Jay Fang	2010/12/23
Section Manager	Even Lin	Reliability Test Engineer Even Lin	2010/01/20

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.

報告專用章 iST INTEGRATED SERVICE TECHNOLOGY

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http://www.istgroup.com

RELIABILITY TEST REPORT

Applicant/Department: RAIO TECHNOLOGY INC.		
Product	: PM8808	
Testing Item	: ESD-HBM	**Package/Pin Count**: COB-256
Test Method	: MIL-STD-883G Method 3015.7	
Failure Criteria	: FOR V CHANGE AT 1μA ±30%	
Test Voltage	: 1000V ~ 5000V (±), Step: 1000V (±)	

ESD-HBM Testing Report

Test Equipment:

KEYTEK ZAPMASTER #1-6094

Environmental Condition of Laboratory:

Temperature: 25ºC±5ºC
Humidity: 55%±10% RH

Test Condition:

ALL – VSS (+)
ALL – VSS (-)
ALL – VCC (+)
ALL – VCC (-)
VCC – VSS (+)
VCC – VSS (-)

Test Result:

MODEL: HBM	ESD SENSITIVITY PASS : **±5000V**		V CLASS: **3A**
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
ALL – VSS (+)	3	+5000V	
ALL – VSS (-)	3	-5000V	
ALL – VCC (+)	3	+5000V	
ALL – VCC (-)	3	-5000V	
VCC – VSS (+)	3	+5000V	
VCC – VSS (-)	3	-5000V	

ALL: 26,29-30,38,40,46,56,67-68,80,123-124,127-128,131-132, 135-144,147-148,151-152,155-156,159-160,164,191-192, 195-196,199-200,203-204,206,208,211-212,216,219-220, 223-224,228,232,236, 240,244
I/O-H:191-192,195-196,200
I/O-L:123,127-128,148,151-152,155-156,159-160,164,232,236,240
I/P:131,135-144,147,199,202-204,208,212,216,219-220,223-224
O/P-H:26,29-30,38,40,46,56,67-68,80,124,201,206-207,211,244
O/P-L:132,228
VCC:168,172,176,180,187,205,215
VCC16V:187,205
VCC5V:168,172,176,180,215
VSS:179,183-184,188

ALL – VSS (+) (UNIT:V)

Test Pin	FAIL VOLTAGE	#1	#2	#3	Test Pin	FAIL VOLTAGE	#1	#2	#3
26		PASS	PASS	PASS	152		PASS	PASS	PASS
29		PASS	PASS	PASS	155		PASS	PASS	PASS
30		PASS	PASS	PASS	156		PASS	PASS	PASS
38		PASS	PASS	PASS	159		PASS	PASS	PASS
40		PASS	PASS	PASS	160		PASS	PASS	PASS
46		PASS	PASS	PASS	164		PASS	PASS	PASS
56		PASS	PASS	PASS	191		PASS	PASS	PASS
67		PASS	PASS	PASS	192		PASS	PASS	PASS
68		PASS	PASS	PASS	195		PASS	PASS	PASS
80		PASS	PASS	PASS	196		PASS	PASS	PASS
123		PASS	PASS	PASS	199		PASS	PASS	PASS
124		PASS	PASS	PASS	200		PASS	PASS	PASS
127		PASS	PASS	PASS	203		PASS	PASS	PASS
128		PASS	PASS	PASS	204		PASS	PASS	PASS
131		PASS	PASS	PASS	206		PASS	PASS	PASS
132		PASS	PASS	PASS	208		PASS	PASS	PASS
135		PASS	PASS	PASS	211		PASS	PASS	PASS
136		PASS	PASS	PASS	212		PASS	PASS	PASS
137		PASS	PASS	PASS	216		PASS	PASS	PASS
138		PASS	PASS	PASS	219		PASS	PASS	PASS
139		PASS	PASS	PASS	220		PASS	PASS	PASS
140		PASS	PASS	PASS	223		PASS	PASS	PASS
141		PASS	PASS	PASS	224		PASS	PASS	PASS
142		PASS	PASS	PASS	228		PASS	PASS	PASS
143		PASS	PASS	PASS	232		PASS	PASS	PASS
144		PASS	PASS	PASS	236		PASS	PASS	PASS
147		PASS	PASS	PASS	240		PASS	PASS	PASS
148		PASS	PASS	PASS	244		PASS	PASS	PASS
151		PASS	PASS	PASS					

ALL – VSS (-) (UNIT:V)

Test Pin	FAIL VOLTAGE	#1	#2	#3	Test Pin	FAIL VOLTAGE	#1	#2	#3
26		PASS	PASS	PASS	152		PASS	PASS	PASS
29		PASS	PASS	PASS	155		PASS	PASS	PASS
30		PASS	PASS	PASS	156		PASS	PASS	PASS
38		PASS	PASS	PASS	159		PASS	PASS	PASS
40		PASS	PASS	PASS	160		PASS	PASS	PASS
46		PASS	PASS	PASS	164		PASS	PASS	PASS
56		PASS	PASS	PASS	191		PASS	PASS	PASS
67		PASS	PASS	PASS	192		PASS	PASS	PASS
68		PASS	PASS	PASS	195		PASS	PASS	PASS
80		PASS	PASS	PASS	196		PASS	PASS	PASS
123		PASS	PASS	PASS	199		PASS	PASS	PASS
124		PASS	PASS	PASS	200		PASS	PASS	PASS
127		PASS	PASS	PASS	203		PASS	PASS	PASS
128		PASS	PASS	PASS	204		PASS	PASS	PASS
131		PASS	PASS	PASS	206		PASS	PASS	PASS
132		PASS	PASS	PASS	208		PASS	PASS	PASS
135		PASS	PASS	PASS	211		PASS	PASS	PASS
136		PASS	PASS	PASS	212		PASS	PASS	PASS
137		PASS	PASS	PASS	216		PASS	PASS	PASS
138		PASS	PASS	PASS	219		PASS	PASS	PASS
139		PASS	PASS	PASS	220		PASS	PASS	PASS
140		PASS	PASS	PASS	223		PASS	PASS	PASS
141		PASS	PASS	PASS	224		PASS	PASS	PASS
142		PASS	PASS	PASS	228		PASS	PASS	PASS
143		PASS	PASS	PASS	232		PASS	PASS	PASS
144		PASS	PASS	PASS	236		PASS	PASS	PASS
147		PASS	PASS	PASS	240		PASS	PASS	PASS
148		PASS	PASS	PASS	244		PASS	PASS	PASS
151		PASS	PASS	PASS					

ALL – VCC (+) (UNIT:V)

Test Pin	FAIL VOLTAGE	#1	#2	#3	Test Pin	FAIL VOLTAGE	#1	#2	#3
26		PASS	PASS	PASS	152		PASS	PASS	PASS
29		PASS	PASS	PASS	155		PASS	PASS	PASS
30		PASS	PASS	PASS	156		PASS	PASS	PASS
38		PASS	PASS	PASS	159		PASS	PASS	PASS
40		PASS	PASS	PASS	160		PASS	PASS	PASS
46		PASS	PASS	PASS	164		PASS	PASS	PASS
56		PASS	PASS	PASS	191		PASS	PASS	PASS
67		PASS	PASS	PASS	192		PASS	PASS	PASS
68		PASS	PASS	PASS	195		PASS	PASS	PASS
80		PASS	PASS	PASS	196		PASS	PASS	PASS
123		PASS	PASS	PASS	199		PASS	PASS	PASS
124		PASS	PASS	PASS	200		PASS	PASS	PASS
127		PASS	PASS	PASS	203		PASS	PASS	PASS
128		PASS	PASS	PASS	204		PASS	PASS	PASS
131		PASS	PASS	PASS	206		PASS	PASS	PASS
132		PASS	PASS	PASS	208		PASS	PASS	PASS
135		PASS	PASS	PASS	211		PASS	PASS	PASS
136		PASS	PASS	PASS	212		PASS	PASS	PASS
137		PASS	PASS	PASS	216		PASS	PASS	PASS
138		PASS	PASS	PASS	219		PASS	PASS	PASS
139		PASS	PASS	PASS	220		PASS	PASS	PASS
140		PASS	PASS	PASS	223		PASS	PASS	PASS
141		PASS	PASS	PASS	224		PASS	PASS	PASS
142		PASS	PASS	PASS	228		PASS	PASS	PASS
143		PASS	PASS	PASS	232		PASS	PASS	PASS
144		PASS	PASS	PASS	236		PASS	PASS	PASS
147		PASS	PASS	PASS	240		PASS	PASS	PASS
148		PASS	PASS	PASS	244		PASS	PASS	PASS
151		PASS	PASS	PASS					

ALL – VCC (-) (UNIT:V)

Test Pin	FAIL VOLTAGE	#1	#2	#3	Test Pin	FAIL VOLTAGE	#1	#2	#3
26		PASS	PASS	PASS	152		PASS	PASS	PASS
29		PASS	PASS	PASS	155		PASS	PASS	PASS
30		PASS	PASS	PASS	156		PASS	PASS	PASS
38		PASS	PASS	PASS	159		PASS	PASS	PASS
40		PASS	PASS	PASS	160		PASS	PASS	PASS
46		PASS	PASS	PASS	164		PASS	PASS	PASS
56		PASS	PASS	PASS	191		PASS	PASS	PASS
67		PASS	PASS	PASS	192		PASS	PASS	PASS
68		PASS	PASS	PASS	195		PASS	PASS	PASS
80		PASS	PASS	PASS	196		PASS	PASS	PASS
123		PASS	PASS	PASS	199		PASS	PASS	PASS
124		PASS	PASS	PASS	200		PASS	PASS	PASS
127		PASS	PASS	PASS	203		PASS	PASS	PASS
128		PASS	PASS	PASS	204		PASS	PASS	PASS
131		PASS	PASS	PASS	206		PASS	PASS	PASS
132		PASS	PASS	PASS	208		PASS	PASS	PASS
135		PASS	PASS	PASS	211		PASS	PASS	PASS
136		PASS	PASS	PASS	212		PASS	PASS	PASS
137		PASS	PASS	PASS	216		PASS	PASS	PASS
138		PASS	PASS	PASS	219		PASS	PASS	PASS
139		PASS	PASS	PASS	220		PASS	PASS	PASS
140		PASS	PASS	PASS	223		PASS	PASS	PASS
141		PASS	PASS	PASS	224		PASS	PASS	PASS
142		PASS	PASS	PASS	228		PASS	PASS	PASS
143		PASS	PASS	PASS	232		PASS	PASS	PASS
144		PASS	PASS	PASS	236		PASS	PASS	PASS
147		PASS	PASS	PASS	240		PASS	PASS	PASS
148		PASS	PASS	PASS	244		PASS	PASS	PASS
151		PASS	PASS	PASS					

VCC – VSS (+) (UNIT: V)			
Test Pin / FAIL VOLTAGE	#1	#2	#3
168	PASS	PASS	PASS
172	PASS	PASS	PASS
176	PASS	PASS	PASS
180	PASS	PASS	PASS
187	PASS	PASS	PASS
205	PASS	PASS	PASS
215	PASS	PASS	PASS

VCC – VSS (-) (UNIT: V)			
Test Pin / FAIL VOLTAGE	#1	#2	#3
168	PASS	PASS	PASS
172	PASS	PASS	PASS
176	PASS	PASS	PASS
180	PASS	PASS	PASS
187	PASS	PASS	PASS
205	PASS	PASS	PASS
215	PASS	PASS	PASS