



MAG. LAYERS Scientific- Technics Co., Ltd.



MLB-201209-0050S-N1-RU

Reliability Report

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DESCRIPTION

1. Mag.Layers Co., Ltd. is executing the testing process seriously, All the test data is attached.
2. To use the report in whole, can't be separated.
3. The report can't be used by other way.
4. The report is in vain when separately.
5. Please see the attached data for comparision and reference.



CONTENTS

PAGE	TEST ITEM	REMARK
PAGE5	THERMAL SHOCK	1-10PCS
PAGE6	HUMIDITY RESISTANCE	11-20PCS
PAGE7	HIGH TEMPERATURE RESISTANCE	21-30PCS
PAGE8	PRODUCTS STRENGTH	
PAGE9	REFLOW	
PAGE10	VIBRATION	
PAGE11	THE TEST REPORT OF VIBRATION	
PAGE12	MTBF	31-60
PAGE13	THE TEST REPORT OF MTBF	



ENVIRONMENT TEST DATA

TEST ITEM	HIGH TEMPERATURE RESISTANCE							
TEST P/N	MLB-201209-0050S-N1-RU							
TEST CONDITION	80°C FOR 1000 HOURS							
THE PERIOD OF TEST	FROM July 13, 2006 PM 5:30 TO Aug 24, 2006 AM 8:30							
DATA BEFORE TEST			DATA AFTER TEST			VARIATION(%)		REMARK
SAMPLE	Z(Ω)		SAMPLE	Z(Ω)		Z(Ω)	DESCRIPTION	
1	46.70		1	47.64		2.01%	21-30pcs	
2	51.00		2	49.30		-3.33%		
3	50.00		3	51.60		3.20%		
4	50.40		4	52.70		4.56%		
5	50.00		5	49.60		-0.80%		
6	48.60		6	48.90		0.62%		
7	53.00		7	52.90		-0.19%		
8	49.80		8	47.50		-4.62%		
9	49.70		9	50.90		2.41%		
10	47.60		10	48.90		2.73%		
11			11			#DIV/0!		
12			12			#DIV/0!		
13			13			#DIV/0!		
14			14			#DIV/0!		
15			15			#DIV/0!		
16			16			#DIV/0!		
17			17			#DIV/0!		
18			18			#DIV/0!		
19			19			#DIV/0!		
20			20			#DIV/0!		
21			21			#DIV/0!		
22			22			#DIV/0!		
23			23			#DIV/0!		
24			24			#DIV/0!		
25			25			#DIV/0!		
26			26			#DIV/0!		
27			27			#DIV/0!		
28			28			#DIV/0!		
29			29			#DIV/0!		
30			30			#DIV/0!		

REMARK The value of Z should be within $\pm 20\%$ TEST RESULT: PASS (The value of Z all within $\pm 20\%$)

Approved: _____

Miin

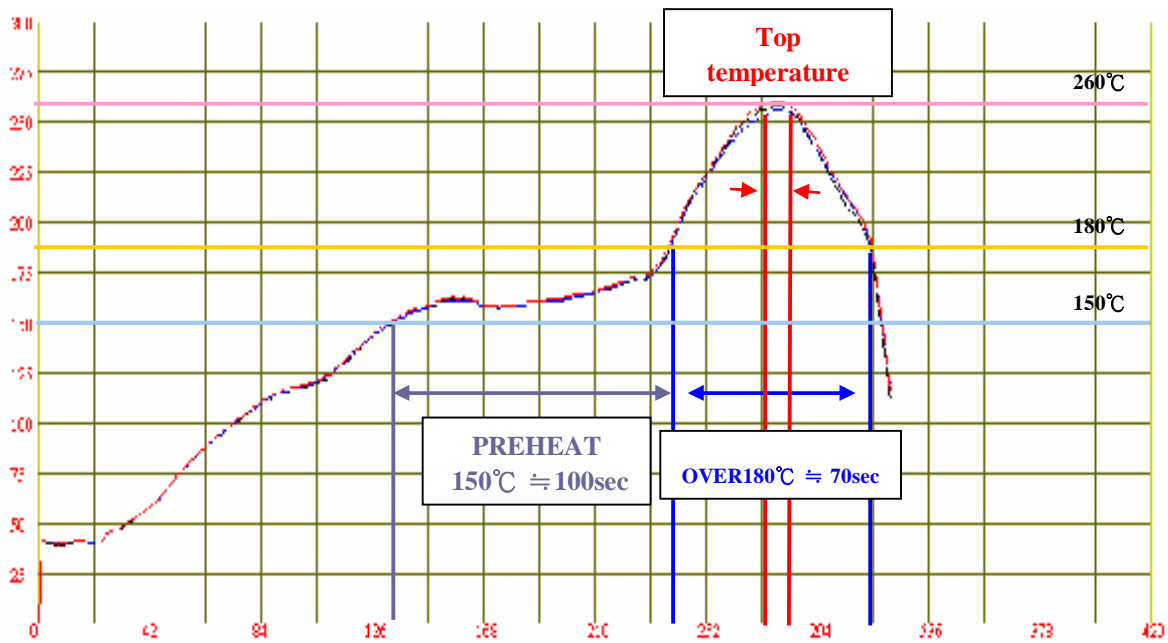
Prepared : _____

Kinway



REFLOW 260°C

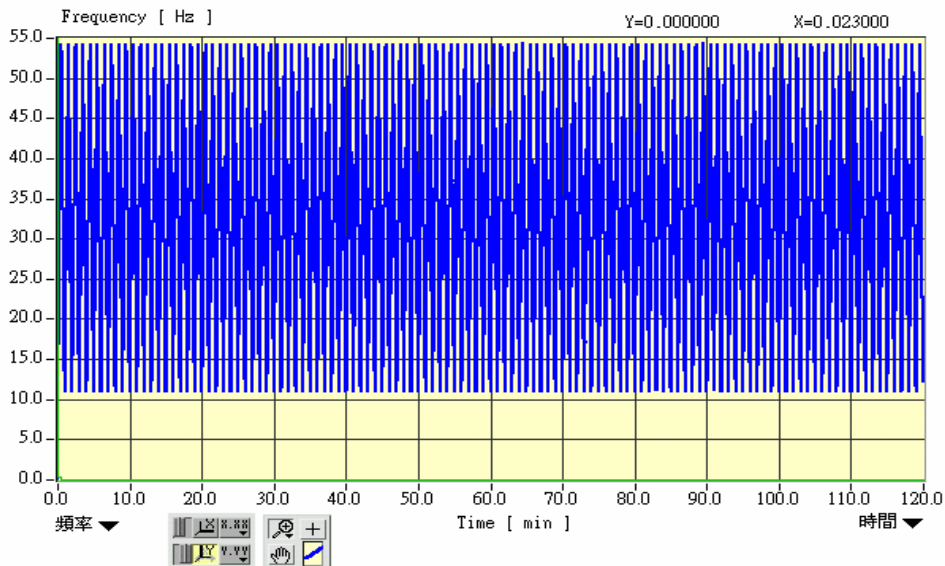
IR REFLOW 260°C (260°C ± 5°C/Time max 10sec)





VIBRATION TEST REPORT

1. Company Name : MAG. LAYERS Scientific-Technics Co., Ltd.
2. Date : July 24 2006
3. Lot No. : Experimentation
4. TIME : PM 05:55:48
5. Test type : Vibration Test
6. Test time : 120.0min
7. The beginning of Frequency : 10.0Hz
8. Vibration Mode : Linear Vibration Frequency test
9. The ending of Frequency : 55.0Hz
10. The amplitude of vibration : 1.5mm
11. Cycle times : 120.0cycles
12. Test time : 1.0min/cycle
13. Vibrate times : 3.510E+5cycles
14. Test Part No. : MLB-201209-0050S-N1-RU



TESTER : kinway

TEST RESULT : OK



SAMPLES P/N	MLB-201209-0050S-N1-RU		TEST CONDITION			
TESTED SAMPLES	30	PCS.	<ul style="list-style-type: none"> Operate TEMP(T1) : 25 °C Hasten TEMP(T2) : 85 °C 	Test Times	START	2006/07/13
TEST HRS	1000	HRS	<ul style="list-style-type: none"> Operate CURRENT(A1) : 5500 mA Hasten CURRENT(A2) : 6600 mA 		FINISHED	2006/08/24

PRODUCT SPECIFICATION & FAILURE DEFINITION	TEST RESULT
ΔL/L within ± 5 %	<ul style="list-style-type: none"> TEST RESULT = PASS A.F = (A2/A1) ^ 3 * 2 ^ ((T2-T1) / 10) = 110.59 TOTAL TEST HRS = 3,317,760 HRS. FIT(Failure In Time) = 693.24 (Failure / 10⁹ Hrs) CONFIDENT LEVEL 90% MTTF= 1,442,504 HRS.

TEST PROCEDURE INTERPRETATION :

1. The life test is not reach 10% failure

2. r= 0 pcs

r	TIME (HRS)	r	TIME (HRS)
r1		r6	
r2		r7	
r3		r8	
r4		r9	
r5		r10	

TEMP.	25	°C
R. H.	60	%

APPROVED BY : *Min*

PREPARED BY : *Kinway*