



MAG. LAYERS Scientific- Technics Co., Ltd.



HFI - 100505 - 1N8S

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.



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ENVIRONMENT TEST DATA

TEST ITEM	HIGH TEMPERATURE RESISTANCE							
TEST P/N	HFI-100505-1N8S							
TEST CONDITION	85°C FOR 1000 HOURS							
THE PERIOD OF TEST	FROM Feb 08, 2006 PM5: 30 TO Mar 22, 2006 AM8:30							
DATA BEFORE TEST			DATA AFTER TEST			VARIATION(%)		REMARK
SAMPLE	L(nH)	Q	SAMPLE	L(nH)	Q	L(nH)	Q	DESCRIPTION
1	1.62	9.9	1	1.66	8.7	2.47%	-12.12%	21-30pcs
2	1.60	9.9	2	1.58	9.7	-1.25%	-2.02%	
3	1.70	9.1	3	1.74	8.8	2.35%	-3.30%	
4	1.64	8.9	4	1.61	9.0	-1.83%	1.12%	
5	1.60	9.7	5	1.66	9.4	3.75%	-3.09%	
6	1.59	10.1	6	1.58	9.9	-0.63%	-1.98%	
7	1.79	9.5	7	1.84	8.7	2.79%	-8.42%	
8	1.64	8.9	8	1.66	9.2	1.22%	3.37%	
9	1.66	8.9	9	1.64	8.4	-1.20%	-5.62%	
10	1.65	8.6	10	1.70	8.9	3.03%	3.49%	
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 L should be within $\pm 10\%$, The value of Q should be within $\pm 30\%$ TEST RESULT: PASS (The value of L all within $\pm 10\%$)

Approved: _____

Miin

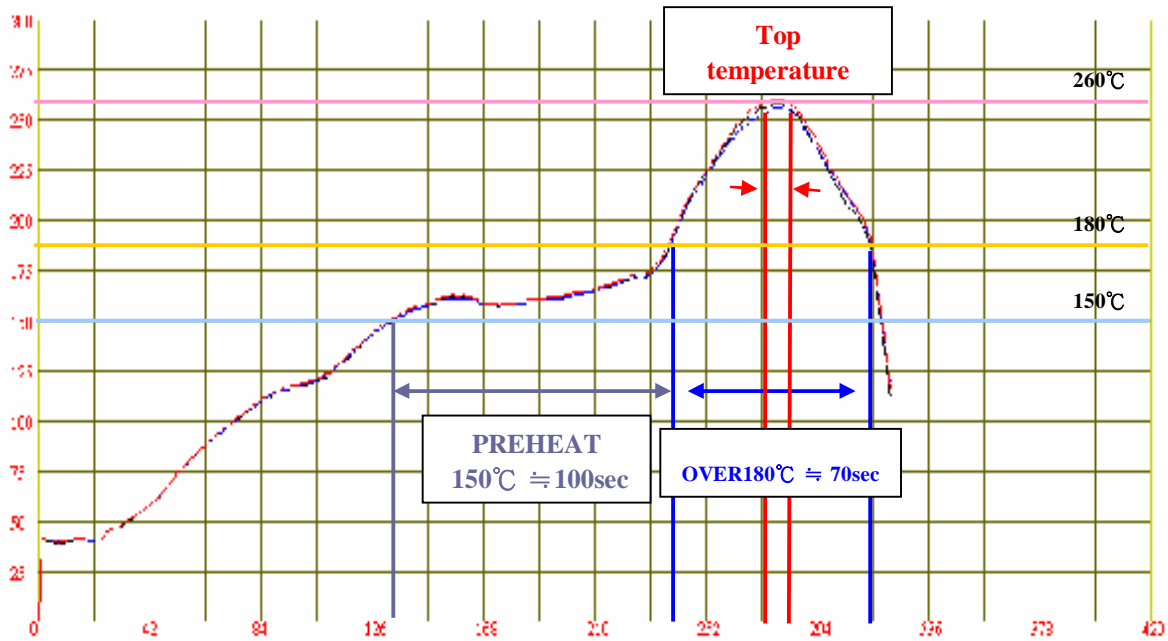
Prepared : _____

Kinway



REFLOW 260°C

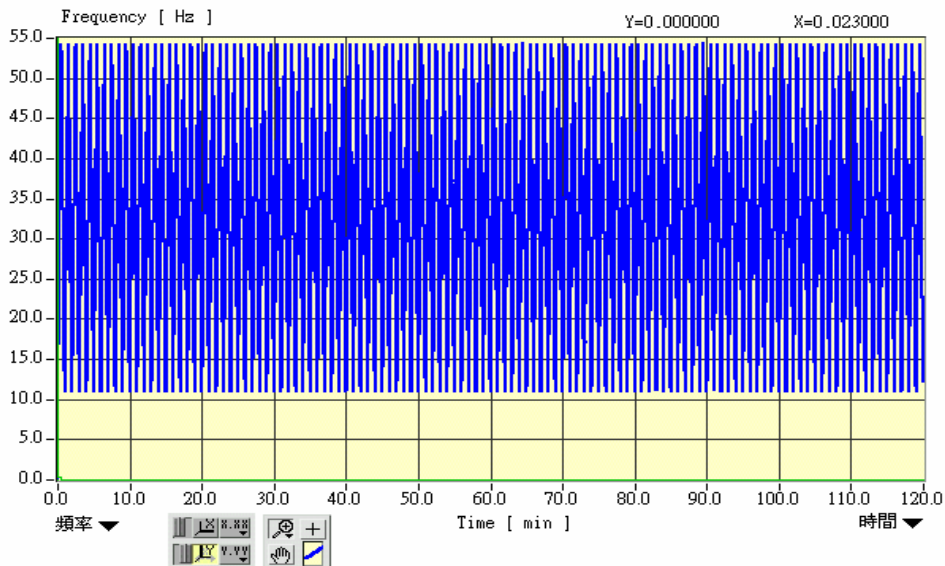
IR REFLOW 260°C (260°C ± 5°C/Time max 10sec)





VIBRATION TEST REPORT

1. Company Name : MAG. LAYERS Scientific-Technics Co., Ltd.
2. Date : Jan 14, 2006
3. Lot No. : Experimentation
4. TIME : PM 06:14:13
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 times : 1.0min/cycle
13. Vibrate times : 3.510E+5cycles
14. Test Part No. : HFI-100505-1N8S



TESTER : kinway

TEST RESULT : OK



SAMPLES P/N	HFI-100505-1N8S		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	2006/02/08
TEST HRS	1000	HRS	<ul style="list-style-type: none"> Operate CURRENT(A1) : 300 mA Hasten CURRENT(A2) : 360 mA 		FINISHED	2006/03/22

PRODUCT SPECIFICATION & FAILURE DEFINITION	TEST RESULT
ΔL/L within ± 5 %	<ul style="list-style-type: none"> TEST RESULT = PASS A.F = $(A2/A1) \wedge 3 * 2 \wedge ((T2-T1) / 10) = 110.59$ 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*