



# Temperature Curve of Infrared Reflow

## SOP- 8P Pb Free Infrared Reflow

NO	ITEM	TEST CONDITION	*1 PRE-CONDITION	DURATION	REMARK	S/S	Acc./ Rej.
1	Solderability Test <sup>*2</sup>	245±5°C	No	5±0.5 sec	- Function test - Solder Visual	10*3 / Lot	0/1
2	Moisture Sensitivity <sup>*3</sup>	30°C/60%RH	No	192 hours	- Function test	22	0/1
3	Lead Plating (A) Moisture Resistance	60°C/95%RH	Yes	1000 hours	- Whisker check by SEM < 50um	10*3 / Lot	0/1
4	Lead Plating (B) Temp. Cycle	-55°C~85°C 15min - 15min	Yes	1000 cycles	- Whisker check by SEM < 50um	10*3 / Lot	0/1
5	Lead Plating (C) Room Temp. Storage	Ta=Room Temp	Yes	1000 hours	- Whisker check by SEM < 50um	10*3 / Lot	0/1

備註：可靠度測試前需將所有受測材料編號，Function Test 對照材料之編號儲存 datalog，每一階段之 Function Test 亦需依材料之編號儲存 datalog，且使用之測試條件皆需相同。

### \*1) Pre-condition :

one reflow (Peak 235~245°C 10 second, 220°C 35~60 second)

### \*2) Solderability Test :

Refer to IPC/EIA J-STD-002B or MIL-STD-883F, Category 3 aging (= 93°C, 100RH, 8Hrs).

The coating durability Category from IPC/EIA J-STD-002B:Test A & Test S.

### \*3) Moisture Sensitivity :

Following J-STD-020C.

C-SAM (Top & Bottom) → Bake (125+5/-0°C/24h) → Humidification<sup>\*4</sup> → IR Reflow<sup>\*5</sup> (3 cycles) → C-SAM (Top & Bottom) → Function Test

Note: (1) Reflow profile to be provide. (2) C-SAM report must be provided indicating all area of delamination per J-STD-020C

### \*4) Humidification :

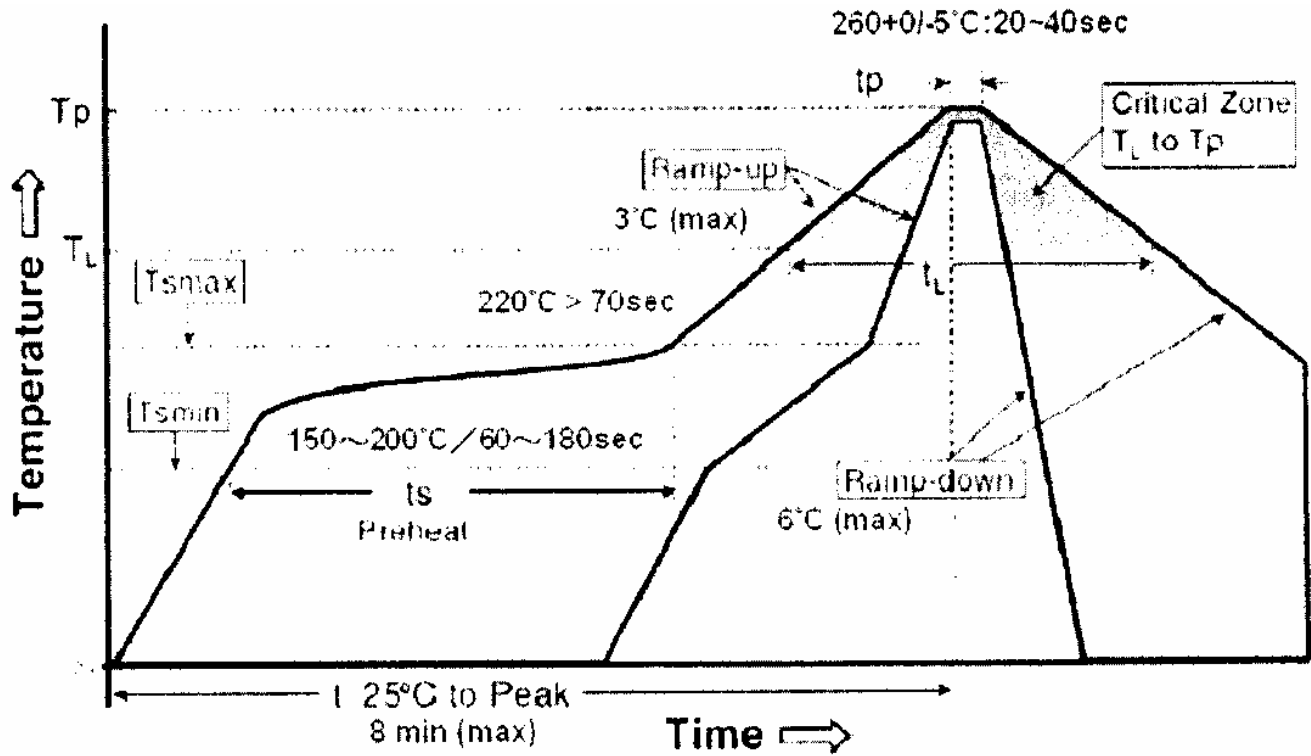
L3 : 30°C / 60%RH / 192h



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\*5) IR Reflow :



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SYNC Power Corporation  
9F-5, No.3-2, Park Street  
NanKang District (NKSP), Taipei, Taiwan, 115, R.O.C  
Phone: 886-2-2655-8178  
Fax: 886-2-2655-8468  
<http://www.syncpower.com>