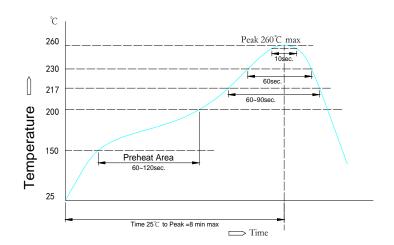
Reflow profile parameters

## 1.Reflow Soldering Heat Endurance

(1) Preheat condition: 150 ~200°C/60~120sec.

(2) Ramp-up rate(T<sub>L</sub> to T<sub>P</sub>):3°C/sec. max.

(3) Allowed time above 217°C: 60~90sec.



(4) Allowed time above 230°C: 60sec.
(5) Peak temp: 260°C

- (6) Max time at peak temp: 10sec. but for wire wound products,5sec.
- (7) Ramp-down rate(T\_P to T\_L):6  $^\circ\! \mathbb{C}/\text{sec}$  max.

Recommended solder paste: Sn/3.0Ag/0.5Cu Liquidous temperature  $T_L{=}217^\circ\!\mathbb{C}$ 

#### Note:

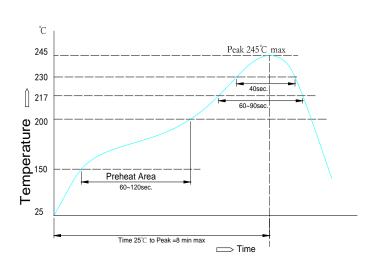
- (1) No mechanical and electrical defects are found after testing based on the above profile and keeping under the conditions of room temperature and humidity for 2 hours.
- (2) 2 times reflow test is acceptable with the test interval remaining 1 hour under the normal conditions.
- (3) This reflow profile is for classification/preconditioning and are not meant to specify board assembly profiles, Actual
  - board assembly profile should be developed based on specific process needs and board designs and **should not exceed** the parameters listed above.
- (4) The reflow test profile may vary with the testing instruments.

# 2. Recommended Reflow Conditions

#### Reflow profile parameters

- (1) Preheat condition: 150 ~200  $^\circ\!\mathrm{C}/60$ ~120sec.
- (2) Ramp-up rate(T<sub>L</sub> to T<sub>P</sub>):3°C/sec. max.
- (3) Allowed time above  $217^{\circ}C: 60\sim 90$  sec.
- (4) Allowed time above  $230^{\circ}C$ : 40sec.
- (5) Peak temp: 245°C
- (6) Ramp-down rate(T\_P to T\_L):6  $^\circ\! \mathbb{C}/\text{sec.}$  max.

Recommended solder paste: Sn/3.0Ag/0.5Cu Liquidous temperature TL=217 $^\circ\!\!\mathbb{C}$ 



#### Note:

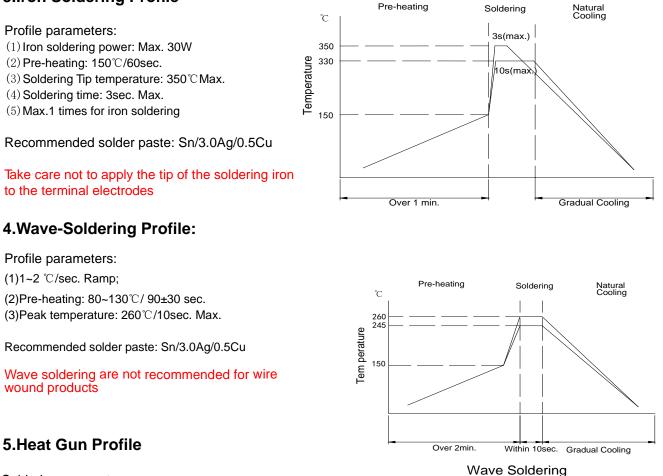
The recommended reflow profile here is for classification/preconditioning, ,Actual board assembly profile is based on the testing instruments used, **Solderability** depends on the testing equipments,reflow conditions, testing method,etc.so it is necessary to make a confirmation of them when the reflow conditions are set up.

All specifications are subject to change without notice.

# **Soldering Conditions**



### **3.Iron Soldering Profile**



Soldering parameters

(1)Soldering tip temperature: 350°C Max.

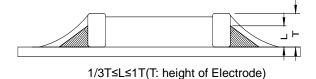
(2)Hot air time: <5sec (over 5sec may cause wiring inductor short)

(3)When repairing or reworking the component near inductors, take over-heat protection for inductors.

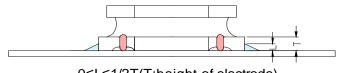
## 6.Solder Amount

Solder shall be used not to exceed as shown below, Exceeding solder amount may cause the failure of mechanical or electrical performance(L:recommendable,T:height of electrode).

(1)For monolithic type



(2) For Wirewound Inductors



 $0 \le L \le 1/2T(T:height of electrode)$ 

All specifications are subject to change without notice.