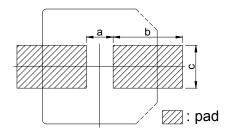


Soldering Profile of SMD Type

Recommended Land Pattern and Size

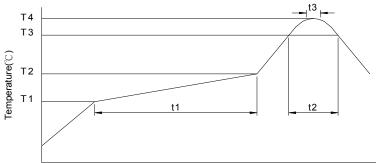


							Uı	nit: mm
Case size		Land size a b c			Case size	а	Land siz b	ze C
40	φ	1.0	2.6	1.6	10φ	4.0	4.0	2.5
50	φ	1.4	3.0	1.6	12.5φ	4.0	6.0	3.2
6.3	Зφ	1.9	3.5	1.6	16φ	6.0	7.0	3.2
80	φ	3.0	3.5	2.5	18φ	6.0	8.0	3.2

Recommended Soldering Methods

Method	Reflow soldering	Soldering iron	Flow soldering	
Advisability	Recommended	Recommended	Not Recommended	

Reflow Profile for Pb-free Assembly



Tim e(sec)

Test Conditions

٦	SMD Type							
W.	4 ~ 50		63 up	4 ~	100	160 up		
Case	4 ~ 6.3		4 ~ 6.3	8 ~ 18		12.5 up		
Preheat	Temp. (T1 ~ T2°C)	150 ~ 180						
	Time(t1) (Max, Sec)	100						
Duration	Temp. (T3, °C)	217	230	217	217	230	217	
	Time(t2) (Max, Sec)	90	60	60	60	40	40	
Peak	Temp (T4, °C)	260		250	250		240	
	Time (t3, Sec)	5						
Reflo	2 or less							

* Please contact our representative if your condition is higher.

* Please ensure that the capacitor became cold enough to the room temperature (5 ~ 35°C) before the second reflow.

* Consult with us when performing reflow profile in IPC / JEDEC (J-STD-020)

(1) Method is as follows.

Reflow soldering condition. The following temperature profile condition should be observed for soldering. (For higher temperature, pleases contact us after measuring the capacitor's product temperature profile at your side.

Product temperature will rise slower as the product size gets bigger. It is not necessary to adjust the reflow furnace temperature setting according to the product size, for example, $\varphi 4$ and $\varphi 10$ products can be mixed on one PCB for reflowing.

(2) Soldering precautions

- 1. Elements related to the reflow soldering temperature
- * Product size: The temperature rises slower as the size gets bigger.
- * Product location: The center part of the PCB tends to have a lower temperature than the PCB edges.
- * PCB size: The PCB temperature rises slower as the area and/or thickness of the PCB gets greater.
- 2. Repeated reflowing
 - * Avoid reflowing twice if possible.
 - If repeated reflowing is unavoidable, contact us after measuring the first and the second reflow profiles and reflow interval at your side.
 Do not attempt to reflow three times.
- 3. Soldering with soldering iron observe the
- following conditions.
- * The iron tip temperature: $350 \pm 5^{\circ}$ C
- * Soldering time: 3 +1 / -0 seconds.