

■ Recommended soldering conditions

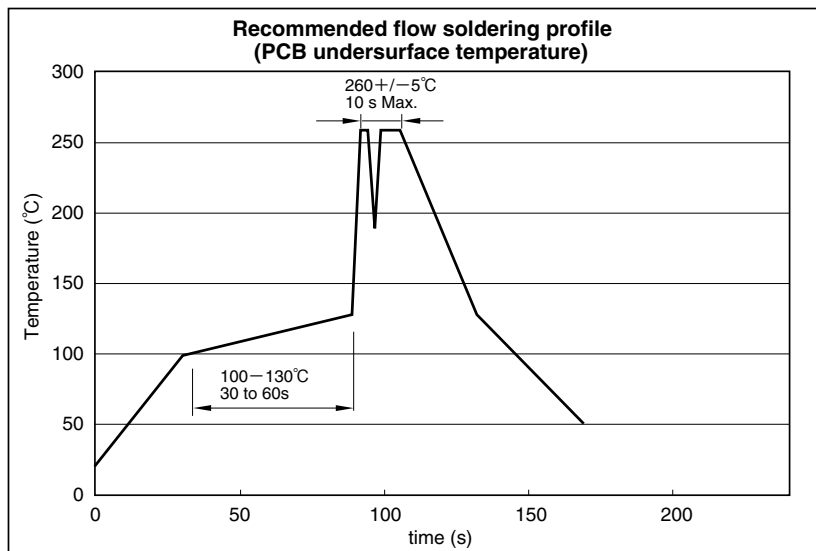
● Aluminum electrolytic capacitors (Lead free)

(1) Soldering iron conditions

Iron tip temperature shall be $400^{\circ}\text{C} \pm 5^{\circ}\text{C}$ within the duration of $3\frac{1}{2}$ seconds.

(2) Flow soldering conditions

The recommendation soldering conditions of the product in which flow soldering is possible are as graph.



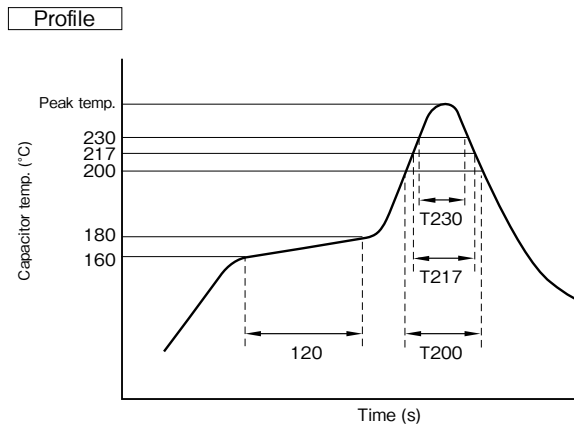
Caution for Using aluminum Electrolytic Capacitors

- (1) Do not dip the capacitor into melted solder.
- (2) Do not flux other part than the terminals.
- (3) If there is a direct contact between the sleeve of the capacitor and the printed circuit pattern or a metal part of another component such as a lead wire, it may cause shrinkage or crack.
- (4) If the application is for extended use, understand and manage the soldering characteristics to avoid abnormal current caused by a contact failure between the capacitor and the PCB.
- (5) Please refer to cautions for using on page 48 to 51 and product specifications about other notes.

■ Recommended soldering conditions

● Chip type aluminum electrolytic capacitors (Lead free)

- (1) Soldering iron conditions
Iron tip temperature shall be $400^{\circ}\text{C} \pm 5^{\circ}\text{C}$ within the duration of $3^{\frac{1}{2}}$ seconds.
- (2) Reflow soldering conditions



1. Preheating shall be under 180°C within 120 seconds.
2. Peak temperature shall be within the following table.
3. For conditions exceeding the tolerances, consult with us.

T200 : Duration while capacitor head temperature exceeds 200°C (s)
 T217 : Duration while capacitor head temperature exceeds 217°C (s)
 T230 : Duration while capacitor head temperature exceeds 230°C (s)
 The measurement temperature point is the case top.

Series	Size	Peak temp. (5sec or less)	T230	T217	T200	Reflow cycle
RV5, RVB, RVE, RVS, RVL, RVR, RVC, RVD, RZD, RVV, RVZ, RZF, RZE, RVT, RVX, RVI, RV, RV2, RV3, HV, HVK, HT, HTK, PVG, PVX, PV3, PV2, PVM, PVK, PVS, PVH	$\phi 4$ to $\phi 6.3$	250°C Max.	40 sec. max.	50 sec. max.	60 sec. max.	2 times or less
	$\phi 8$ to $\phi 10$	240°C Max.	40 sec. max.	50 sec. max.	60 sec. max.	2 times or less
	$\phi 12.5$	240°C Max.	20 sec. max.	30 sec. max.	50 sec. max.	2 times or less
RV4	$\phi 4$ to $\phi 5$	250°C Max.	40 sec. max.	50 sec. max.	60 sec. max.	2 times or less
	$\phi 6.3$	240°C Max.	40 sec. max.	50 sec. max.	60 sec. max.	2 times or less
RVJ, RVK	$\phi 8$ to $\phi 10$	240°C Max.	40 sec. max.	50 sec. max.	60 sec. max.	2 times or less
	$\phi 12.5$	230°C Max.	—	20 sec. max.	30 sec. max.	2 times or less
RZA, RZB, RZC	$\phi 4$ to $\phi 6.3$	260°C Max.	40 sec. max.	90 sec. max.	—	2 times or less
	$\phi 8$ to $\phi 10$	250°C Max.	40 sec. max.	90 sec. max.	—	2 times or less
RTZ, RTD, RTT	$\phi 8$ to $\phi 10$	250°C Max.	30 sec. max.	60 sec. max.	80 sec. max.	2 times or less
	$\phi 12.5$ to $\phi 18$	240°C Max.	20 sec. max.	30 sec. max.	50 sec. max.	2 times or less
RTK, RYK, RTJ	—	230°C Max.	—	20 sec. max.	30 sec. max.	2 times or less

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