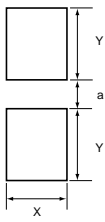


Surface Mount Type

Recommended Land Size



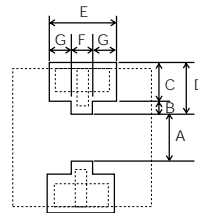
Size	X	Y	a
φ3	1.6	2.2	0.8
φ4	1.6	2.6	1.0
φ5	1.6	3.0	1.4
φ6.3	1.6	3.5	1.9
φ8×5.5L, φ8×6.2L	2.5	4.0	2.1
φ8×10L	2.5	3.5	3.0
φ10	2.5	4.0	4.0
φ12.5	4.0	7.5	7.0
φ16	6.0	8.5	9.5
φ18	6.0	9.5	10.5
φ20	6.0	9.5	12.5

Vibration Resistance Type (CZ, UE, BC series)

① φ8 to 10

Size	X	Y	a
φ8×10L	4.3	5.3	2.0
φ10×10L	4.3	5.6	3.3

② φ12.5 to 20

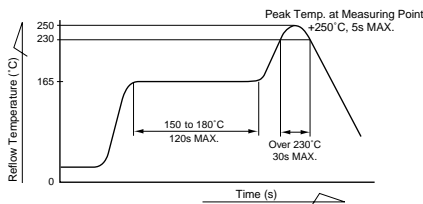


Size	A	B	C	D	E	F	G
φ12.5	3.0	2.3	5.0	7.3	7.0	2.0	2.5
φ16	5.3	2.9	5.0	7.9	7.0	2.0	2.5
φ18	5.3	3.1	5.8	8.9	11.0	2.0	4.5
φ20	7.8	2.9	5.8	8.7	12.0	2.4	4.8

Soldering by Reflow

Table-1

Chip Type Aluminum Electrolytic Capacitors



φ 10 or Smaller

(ZS, ZP, ZT, WX*, WR, WP*, WT*, WF, WG, UP, UT, UA, UL, CB, CW, CD*, CL, UD, UB*, CJ, CZ, UR, UX*, UQ, UE*, BC*)

*1 φ 8 × 5.4L : Refer to the table-2

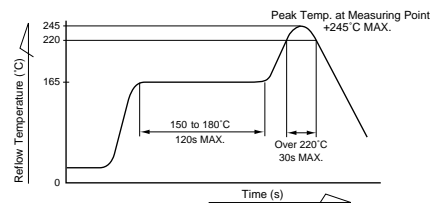
*2 φ 12.5 or greater : Refer to the table-4

*3 160 to 400V : Refer to the table-3

- Pre - heating shall be done at +150°C to 180°C and for 120 seconds.
- The temperature at capacitor Top shall not exceed +250°C.
- The duration for over +230°C temperature at capacitor surface shall not exceed 30 seconds.
- The standard temperature profile differs by every reflow method.
- Reflow shall be done within 2 cycles. please make sure the parts have enough cooling down time between the first and second soldering process.
- Please contact us if capacitors are subject to the conditions other than the allowable range of reflow.

Table-2

Chip Type Aluminum Electrolytic Capacitors

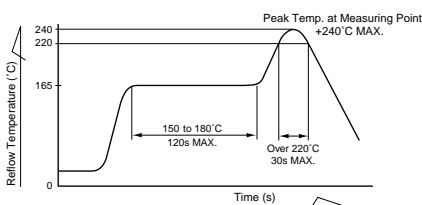


φ 8 × 5.4L (WX, WP, WT)

- Pre - heating shall be done at +150°C to 180°C and for 120 seconds.
- The temperature at capacitor Top shall not exceed +245°C.
- The duration for over +220°C temperature at capacitor surface shall not exceed 30 seconds.
- The standard temperature profile differs by every reflow method.
- Reflow shall be done within 2 cycles. please make sure the parts have enough cooling down time between the first and second soldering process.
- Please contact us if capacitors are subject to the conditions other than the allowable range of reflow.

Table-3

Chip Type Aluminum Electrolytic Capacitors

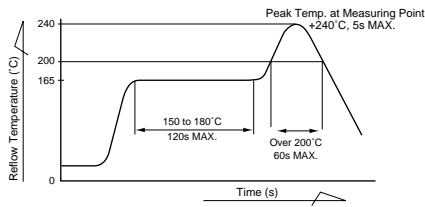


3L, 3.9L (ZD, ZR, ZE, ZG), UX(160 to 400V), UB(160 to 400V)

- Pre - heating shall be done at +150°C to 180°C and for 120 seconds.
- The temperature at capacitor Top shall not exceed +240°C.
- The duration for over +220°C temperature at capacitor surface shall not exceed 30 seconds.
- The standard temperature profile differs by every reflow method.
- Reflow shall be done within 2 cycles. please make sure the parts have enough cooling down time between the first and second soldering process.(φ6.3 : 1 cycle only)
- Please contact us if capacitors are subject to the conditions other than the allowable range of reflow.
- Please contact us if 250°C use of ZG series.

● Table-4
Chip Type Aluminum Electrolytic Capacitors

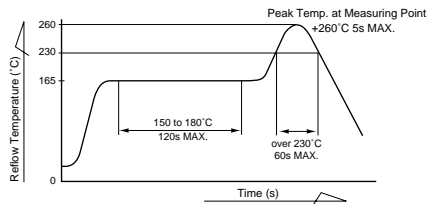
φ 12.5 or greater (CD, UG, UJ, UN, UH, UE, BC)



- Pre - heating shall be done at +150°C to 180°C and for 120 seconds.
- The temperature at capacitor Top shall not exceed +240°C.
- The duration for over +200°C temperature at capacitor surface shall not exceed 60 seconds.
- The standard temperature profile differs by every reflow method.
- Reflow shall be done within 2 cycles. please make sure the parts have enough cooling down time between the first and second soldering process.
- Please contact us if capacitors are subject to the conditions other than the allowable range at reflow.

● Table-5
Chip Type Aluminum Electrolytic Capacitors

(For High Temp. Reflow) WJ, WZ, WD, WH, WS



- Pre - heating shall be done at +150°C to 180°C and for 120 seconds.
- The temperature at capacitor surface shall not exceed +260°C.
- The duration for over +230°C temperature at capacitor surface shall not exceed 60 seconds.
- The standard temperature profile differs by every reflow method.
- Reflow shall be done within 2 cycles. please make sure the parts have enough cooling down time between the first and second soldering process.
(φ 8 × 6.2 and φ 10 × 10 : 1 cycle only)
- Please contact us if capacitors are subject to the conditions other than the allowable range of reflow.