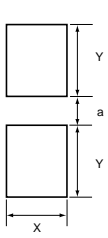


Surface Mount Type

Recommended Land Size



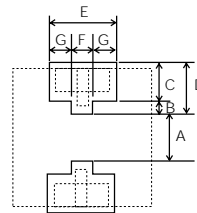
Size	X	Y	a
φ3	1.6	2.2	0.8
φ4	1.6	2.6	1.0
φ5	1.6	3.0	1.4
φ6.3	1.6	3.5	2.1
φ8×5.5L, φ8×6.2L	2.5	4.0	2.1
φ8 × 10L	2.5	3.5	3.0
φ10	2.5	4.0	4.0
φ12.5	4.0	7.5	7.0
φ16	6.0	8.5	9.5
φ18	6.0	9.5	10.5
φ20	6.0	9.5	12.5

● Vibration Resistance Type (CZ, UE, BC series)

① φ8 to 10

Size	X	Y	a
φ8 ×10L, φ8 ×10.5L	4.3	5.3	2.0
φ10 ×10L, φ10 ×10.5L	4.3	5.6	3.3

② φ12.5 to 20

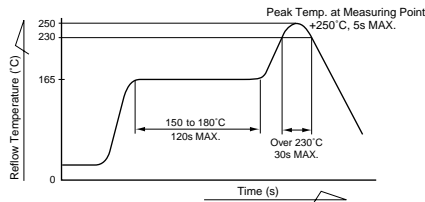


Size	A	B	C	D	E	F	G
φ12.5	3.0	2.3	5.0	7.3	7.0	2.0	2.5
φ16	5.3	2.9	5.0	7.9	7.0	2.0	2.5
φ18	5.3	3.1	5.8	8.9	11.0	2.0	4.5
φ20	7.8	2.9	5.8	8.7	12.0	2.4	4.8

■ Soldering by Reflow

● Table-1

Chip Type Aluminum Electrolytic Capacitors



φ10 or Smaller

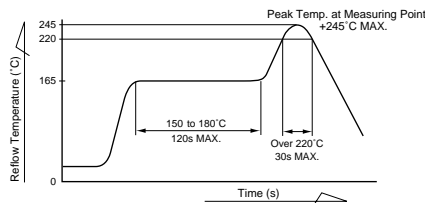
(ZS, ZP, ZT, WX*¹, WR, WP*¹, WT*¹, WF, WG, UP, UT, UA, UL, CB, CW, CD*², CL, UD, UB*³, CJ, CZ, UR, UX*³, UQ, UE*², BC*²) *¹φ8×5.4L : Refer to the table-2

*²φ12.5 or greater : Refer to the table-4 *³160 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

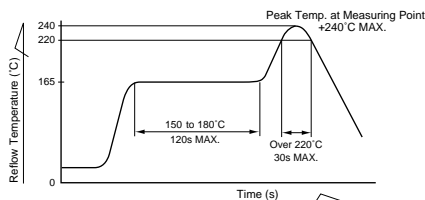


φ8 × 5.4L (WX, WP, WT)

- 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



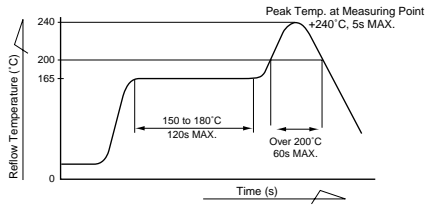
3L, 3.9L (ZD, ZR, ZE, ZG), UX(160 to 400V), UB(160 to 400V)

- 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)

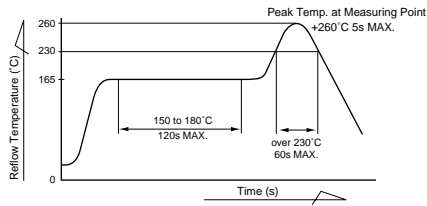


- Pre - heating shall be done at +150°C to 180°C and for 120 seconds.
- The temperature at capacitor Top shall not exceed +240°C.
- The duration for over +200°C temperature at capacitor surface shall not exceed 60 seconds.
- The standard temperature profile differs by every reflow method.
- Reflow shall 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.