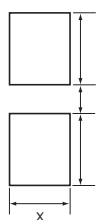


## Surface Mount Type

### Recommended Land Size (mm)



| 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  |
| φ8×5.4L, φ8×6.2L                      | 2.5 | 4.0 | 2.1  |
| φ8×10L                                | 2.5 | 3.5 | 3.0  |
| φ10                                   | 2.5 | 4.0 | 4.0  |
| Welded terminal type                  |     |     |      |
| Size                                  | X   | Y   | a    |
| 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 |
| Perpendicularly mounted terminal type |     |     |      |
| Size                                  | X   | Y   | a    |
| 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 |

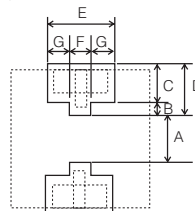
※ A chip product of φ12.5 or more in size and with a bent terminal shape indicates a product where the 11th digit of the product number code is "Q".

### Vibration Resistance Type (CZ, CX, UE, BC series)

① φ6.3 to 10

| Size     | X   | Y   | a   |
|----------|-----|-----|-----|
| φ6.3×10L | 3.0 | 4.0 | 1.6 |
| φ8×10L   | 4.3 | 5.3 | 2.0 |
| φ10×10L  | 4.3 | 5.6 | 3.3 |

② φ12.5 to 20

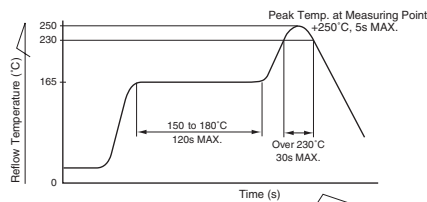


| Size  | A   | B   | C   | D   | E    | F   | G   |
|-------|-----|-----|-----|-----|------|-----|-----|
| φ12.5 | 3.0 | 2.3 | 5.0 | 7.3 | 7.0  | 2.0 | 2.5 |
| φ16   | 5.3 | 2.9 | 5.0 | 7.9 | 7.0  | 2.0 | 2.5 |
| φ18   | 5.3 | 3.1 | 5.8 | 8.9 | 11.0 | 2.0 | 4.5 |
| φ20   | 7.8 | 2.9 | 5.8 | 8.7 | 12.0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

## Soldering by Reflow

### Table-1

Chip Type Aluminum Electrolytic Capacitors



φ10 or Smaller

(ZS, ZP, ZT, WX\*1, WR, WP\*1, WT\*1, WF, WG, UP, UT, UA, UL, CB, CW, CD\*2, CL, CM, UD, UB\*3, CJ, CZ, CX\*2, UR, UX\*3, UQ, UE\*2, BC\*2)

\*1φ8×5.4L : Refer to the table-2

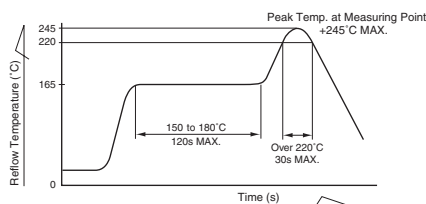
\*2φ12.5 or greater : Refer to the table-4

\*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

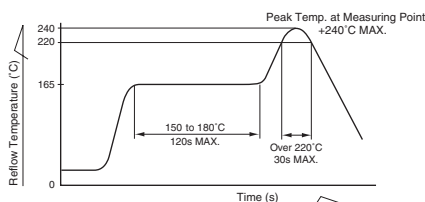


φ8×5.4L (WX, WP, WT)

- 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

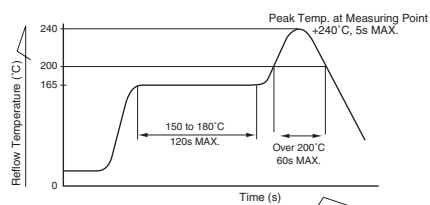


3L, 3.9L (ZD, ZR, ZE, ZG), UX(160 to 400V), UB(160 to 400V), LT, LH, LR, LV

- 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.

## • Table-4

Chip Type Aluminum Electrolytic Capacitors

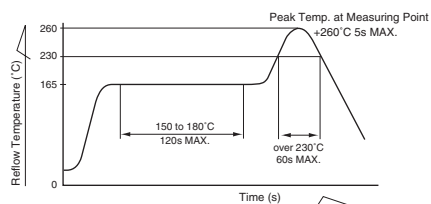
 $\phi$  12.5 or greater (CD, CX, UG, UJ, UN, UE, BC)

- 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.  
( $\phi 8 \times 6.2$  and  $\phi 10 \times 10$  : 1 cycle only)
- Please contact us if capacitors are subject to the conditions other than the allowable range of reflow.



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