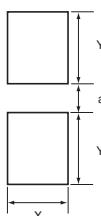


## Surface Mount Type

### ■ Recommended Land Size (mm)



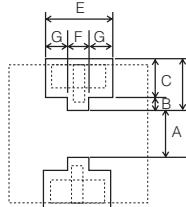
| Size             | X                    | Y   | a                                     |     |     |     |
|------------------|----------------------|-----|---------------------------------------|-----|-----|-----|
| φ3               | 1.6                  | 2.2 | 0.8                                   |     |     |     |
| 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                                   |     |     |     |
| Size             | Welded terminal type |     | Perpendicularly mounted terminal type |     |     |     |
| Size             | X                    | Y   | a                                     | X   | Y   | a   |
| φ12.5            | 4.0                  | 7.5 | 7.0                                   | 2.0 | 7.3 | 3.0 |
| φ16              | 6.0                  | 8.5 | 9.5                                   | 2.0 | 7.9 | 5.3 |
| φ18              | 6.0                  | 9.5 | 10.5                                  | 2.0 | 8.9 | 5.3 |
| φ20              | 6.0                  | 9.5 | 12.5                                  | 2.4 | 8.7 | 7.8 |

### ● 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



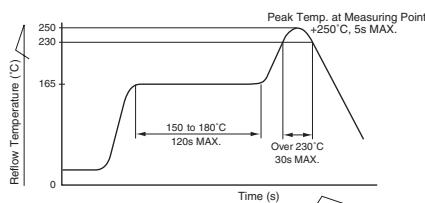
| Size  | A   | B   | C   | D   | E    | F   | G   |
|-------|-----|-----|-----|-----|------|-----|-----|
| φ12.5 | 3.0 | 2.3 | 5.0 | 7.3 | 7.0  | 2.0 | 2.5 |
| φ16   | 5.3 | 2.9 | 5.0 | 7.9 | 7.0  | 2.0 | 2.5 |
| φ18   | 5.3 | 3.1 | 5.8 | 8.9 | 11.0 | 2.0 | 4.5 |
| φ20   | 7.8 | 2.9 | 5.8 | 8.7 | 12.0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

※ 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".

### ■ 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.

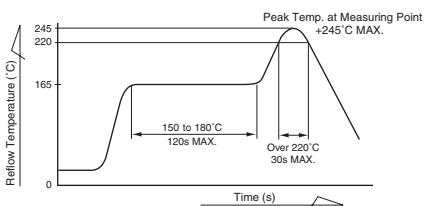
- The standard temperature profile differs by every reflow method.

- 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.

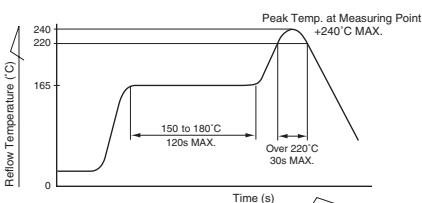
- Reflow shall be done within 2 cycles. please make sure the parts have enough cooling down time between the first and second soldering process.

- 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.

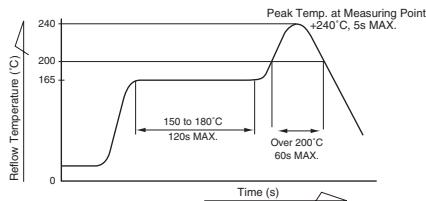
- Reflow shall be done within 2 cycles. please make sure the parts have enough cooling down time between the first and second soldering process.(φ6.3 : 1 cycle only)

- Please contact us if capacitors are subject to the conditions other than the allowable range of reflow.

## ● Table-4

Chip Type Aluminum Electrolytic Capacitors

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

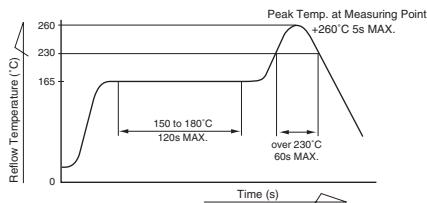


- Pre - heating shall be done at +150°C to 180°C and for 120 seconds.
- The temperature at capacitor Top shall not exceed +240°C.
- The duration for over +200°C temperature at capacitor surface shall not exceed 60 seconds.
- The standard temperature profile differs by every reflow method.
- Reflow shall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

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