

This product is completed the lead-free and RoHS.



## DATA SHEET



SAMWHA ELECTRIC CO., LTD.

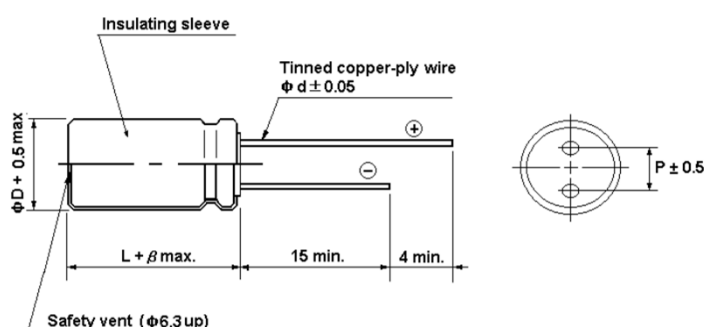
### Aluminum Electrolytic Capacitors

Date : 2024. 02. 07.

Ident-No : SC-ARM680

Part No : RD 1H 227 M 1012M PA

#### Dimensions



|    |      |
|----|------|
| ΦD | 10   |
| L  | 12.5 |
| P  | 5.0  |
| Φd | 0.6  |
| β  | 2.0  |

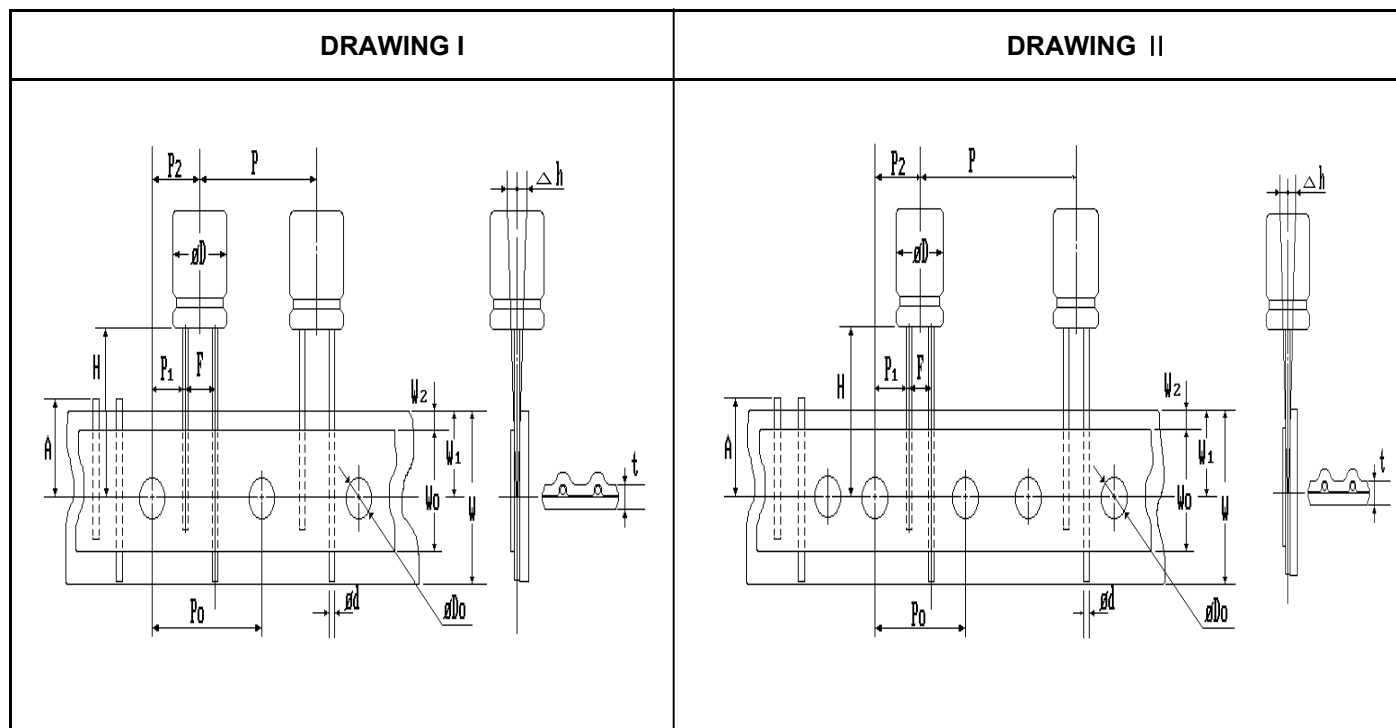
Dimensions of  $\Phi D$  &  $L$

|                                                   |               |
|---------------------------------------------------|---------------|
| Capacitance at 120Hz, 20℃                         | 220 $\mu F$   |
| Tolerance at 120Hz, 20℃                           | ±20 %         |
| Rated Voltage                                     | 50 V          |
| Surge Voltage                                     | 63 V          |
| Ripple current at 120Hz, 105℃                     | 376 mA rms    |
| Leakage current after 2 minute                    | 110.0 $\mu A$ |
| Dissipation factor (tanδ) at 120Hz, 20℃           | 0.12          |
| Equivalent series resistance(E.S.R) at 120Hz, 20℃ | 0.72 $\Omega$ |
| Temperature range                                 | -55 ~ +105℃   |
| Load life at 105℃                                 | 2000 hours    |
| Shelf life at 105℃                                | 1000 hours    |

Approved

K. C. Eom *k. c. Eom*

Technical team manager



Unit : mm

| Applicable drawing No.    |        |           | I    | I     | II   | II   |      |
|---------------------------|--------|-----------|------|-------|------|------|------|
| Description               | Symbol | Tolerance | Φ10  | Φ12.5 |      | Φ16  | Φ18  |
| Lead dia.                 | Φd     | ±0.05     | 0.6  | 0.6   |      | 0.8  | 0.8  |
| Body pitch                | P      | ±1.0      | 12.7 | 15.0  | 25.4 | 30.0 | 30.0 |
| Feeding hole pitch        | Po     | ±0.2      | 12.7 | 15.0  | 12.7 | 15.0 | 15.0 |
| Feeding hole alignment    | P1     | ±0.7      | 3.85 | 5.0   | 3.85 | 3.75 | 3.75 |
| Feeding hole alignment    | P2     | ±1.0      | 6.35 | 7.5   | 6.35 | 7.5  | 7.5  |
| Lead center spacing       | F      | +0.6/-0.2 | 5.0  | 5.0   |      | 7.5  | 7.5  |
| Body inclination          | ΔH     | ±2.0      | 0    | 0     |      | 0    | 0    |
| Tape width                | W      | ±0.5      | 18.0 | 18.0  |      | 18.0 | 18.0 |
| Adhesive tape width       | W0     | min.      | 12.5 | 12.5  |      | 12.5 | 12.5 |
| Feeding hole alignment    | W1     | ±0.5      | 9.0  | 9.0   |      | 9.0  | 9.0  |
| Adhesive tape margin      | W2     | max.      | 2.0  | 2.0   |      | 2.0  | 2.0  |
| Length from seating plane | H      | ±0.5      | 18.5 | 18.5  |      | 18.5 | 18.5 |
| Feeding hole dia.         | ΦDo    | ±0.2      | 4.0  | 4.0   |      | 4.0  | 4.0  |
| Total tape thickness      | t      | ±0.2      | 0.6  | 0.7   |      | 0.7  | 0.7  |
| Cut lead height           | A      | max.      | 11.0 | 11.0  |      | 11.0 | 11.0 |
| Taping Code               | Ammo   | ⊕ leader  | PA   | PH    | PL   | PA   | PA   |

Aluminum Electrolytic Capacitor

Taping dimension