

This product is completed the lead-free and RoHS.



## DATA SHEET



SAMWHA ELECTRIC CO., LTD.

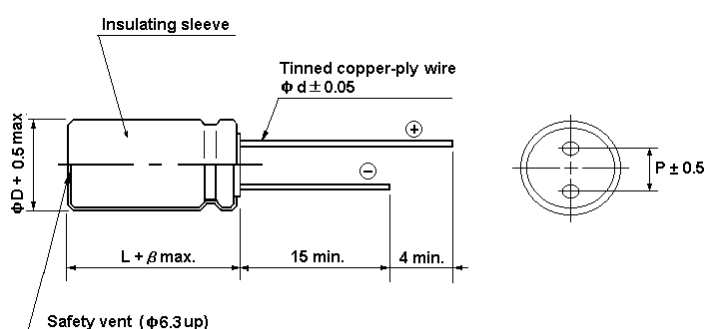
### Aluminum Electrolytic Capacitors

Date : 2021. 07. 27.

Ident-No : SC-ARJ2834

Part No : SD 1H 105 M 05011 PA

#### Dimensions



|          |     |
|----------|-----|
| $\phi D$ | 5   |
| L        | 11  |
| P        | 2.0 |
| $\phi d$ | 0.5 |
| $\beta$  | 1.5 |

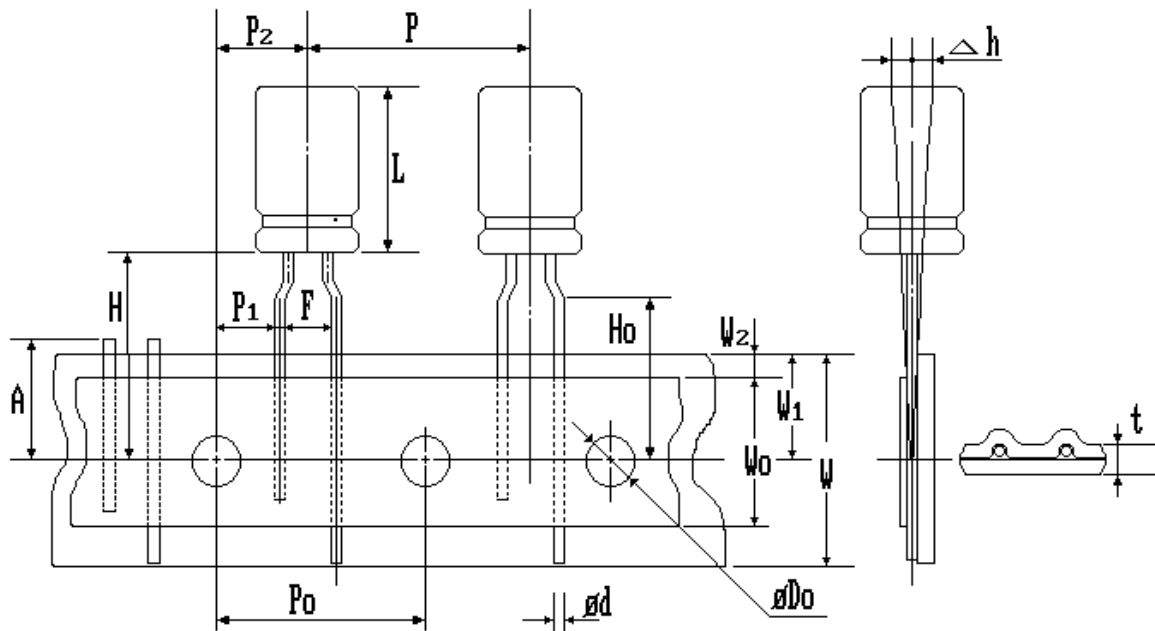
Dimensions of  $\phi D$  & L

|                                                    |                 |
|----------------------------------------------------|-----------------|
| Capacitance at 120Hz, 20℃                          | 1 $\mu F$       |
| Tolerance at 120Hz, 20℃                            | $\pm 20$ %      |
| Rated Voltage                                      | 50 V            |
| Surge Voltage                                      | 63 V            |
| Ripple current at 120Hz, 85℃                       | 21 mA rms       |
| Leakage current after 2 minute                     | 3.0 $\mu A$     |
| Dissipation factor ( $\tan \delta$ ) at 120Hz, 20℃ | 0.12            |
| Equivalent series resistance(E.S.R) at 120Hz, 20℃  | 159.15 $\Omega$ |
| Temperature range                                  | -40 ~ +85℃      |
| Load life at 85℃                                   | 2000 hours      |
| Shelf life at 85℃                                  | 1000 hours      |

Approved

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Technical team manager



Unit : mm

| Description               |      | Symbol     | Tolerance     | $\Phi 4$          |      | $\Phi 5$ |      | $\Phi 6.3$ |      | $\Phi 8$     |      |
|---------------------------|------|------------|---------------|-------------------|------|----------|------|------------|------|--------------|------|
| Body height               |      | L          | <b>*Note</b>  | 5, 7              | 5    | 7, 11    | 5    | 7, 11      | 5    | 11.5, 15, 20 |      |
| Lead dia.                 |      | $\Phi d$   | $\pm 0.05$    | 0.45              | 0.45 | 0.5      | 0.45 | 0.5        | 0.45 | 0.6          |      |
| Body pitch                |      | P          | $\pm 1.0$     | 12.7              |      |          |      |            |      | 12.7         | 12.7 |
| Feeding hole pitch        |      | $P_0$      | $\pm 0.2$     | 12.7              |      |          |      |            |      | 12.7         | 12.7 |
| Feeding hole alignment    |      | $P_1$      | $\pm 0.7$     | 3.85              |      |          |      |            |      | 3.85         | 3.85 |
| Feeding hole alignment    |      | $P_2$      | $\pm 1.0$     | 6.35              |      |          |      |            |      | 6.35         | 6.35 |
| Lead center spacing       |      | F          | $+0.6 / -0.2$ | 5.0               |      |          |      |            |      | 5.0          | 5.0  |
| Body inclination          |      | $\Delta H$ | $\pm 2.0$     | 0                 |      |          |      |            |      | 0            | 0    |
| Tape width                |      | W          | $\pm 0.5$     | 18.0              |      |          |      |            |      | 18.0         | 18.0 |
| Adhesive tape width       |      | $W_0$      | min.          | 9.5               |      |          |      |            |      | 9.5          | 12.5 |
| Feeding hole alignment    |      | $W_1$      | $\pm 0.5$     | 9.0               |      |          |      |            |      | 9.0          | 9.0  |
| Adhesive tape margin      |      | $W_2$      | max.          | 2.0               |      |          |      |            |      | 2.0          | 2.0  |
| Length from seating plane |      | H          | $\pm 0.5$     | 18.5 (5, 7L=17.5) |      |          |      |            |      | 17.5         | 20.0 |
| Lead clinch height        |      | $H_0$      | $\pm 0.5$     | 16.5              |      |          |      |            |      | 16.5         | 16.5 |
| Feeding hole dia.         |      | $\Phi D_0$ | $\pm 0.2$     | 4.0               |      |          |      |            |      | 4.0          | 4.0  |
| Total tape thickness      |      | t          | $\pm 0.2$     | 0.6               |      |          |      |            |      | 0.6          | 0.6  |
| Cut lead height           |      | A          | max.          | 11.0              |      |          |      |            |      | 11.0         | 11.0 |
| Taping Code               | Ammo | ⊕ leader   |               | PA                |      |          |      |            |      | PA           | PG   |

**\*Note** : Refer to the drawing of each series for tolerance.

**Aluminum Electrolytic Capacitor**

**Taping dimension**