

## RF Series

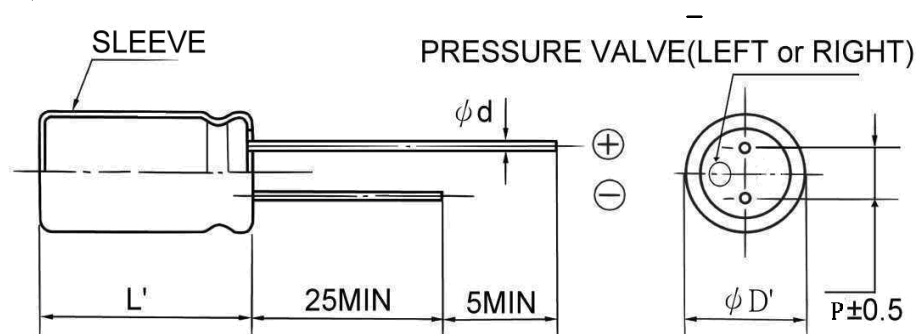
- Miniature & Lead Wire Terminal Type
- Photoflash Use
- Low Leakage Low Dissipation
- Rohs compliance.



### ◆ SPECIFICATIONS

| Item                               | Characteristics                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                                      |                    |                                             |                 |                                             |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------|--------------------|---------------------------------------------|-----------------|---------------------------------------------|
| Operating Temperature Range        | -20 to +55°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |                                      |                    |                                             |                 |                                             |
| Rated Voltage Range                | 360&330 &310& 300 WV.DC                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |                                      |                    |                                             |                 |                                             |
| Withstand Voltage                  | 390&350 & 335&320 SV.DC                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |                                      |                    |                                             |                 |                                             |
| Capacitance Tolerance              | - 10% ~ + 20% (at 25°C, 120Hz)                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                                      |                    |                                             |                 |                                             |
| Leakage Current                    | $I=1 \times C$ whichever is smaller. ( after 5 minutes application of rated voltage )<br>I : Leakage Current ( $\mu A$ ) C : Rated Capacitance                                                                                                                                                                                                                                                                                                                                      |                    |                                      |                    |                                             |                 |                                             |
| Dissipation Factor (tan $\delta$ ) | 0.06 whichever is smaller. ( 25 °C , 120Hz )                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |                                      |                    |                                             |                 |                                             |
| Charge and Discharge               | Charge and discharge at rated voltage at 5~35°C in every 30 seconds for 5000 times via Xe flash tube with discharge resistance of 0.7~1.0 $\Omega$ <table border="1"> <tr> <td>Capacitance Change</td><td><math>\leq \pm 10\%</math> of the initial value</td></tr> <tr> <td>Dissipation Factor</td><td><math>\leq 150\%</math> of the initial specified value</td></tr> <tr> <td>Leakage Current</td><td><math>\leq 150\%</math> of the initial specified value</td></tr> </table> | Capacitance Change | $\leq \pm 10\%$ of the initial value | Dissipation Factor | $\leq 150\%$ of the initial specified value | Leakage Current | $\leq 150\%$ of the initial specified value |
| Capacitance Change                 | $\leq \pm 10\%$ of the initial value                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |                                      |                    |                                             |                 |                                             |
| Dissipation Factor                 | $\leq 150\%$ of the initial specified value                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |                                      |                    |                                             |                 |                                             |
| Leakage Current                    | $\leq 150\%$ of the initial specified value                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |                                      |                    |                                             |                 |                                             |
| Shelf Life                         | Storage without voltage applied at 55°C for 1000 hours and measured at 25 $\pm$ 5°C after voltage processing in EIAJ RC2365 They meet the specified value for charge and discharge characteristics listed above.                                                                                                                                                                                                                                                                    |                    |                                      |                    |                                             |                 |                                             |

### ◆ DRAWING



| $\psi D$  | 9.2-9.5     | 10-10.6 | 11~13.5 | 14 ~ 20 |
|-----------|-------------|---------|---------|---------|
| $\psi d$  | 0.6         | 0.6     | 0.8     | 0.8     |
| P         | 4.2         | 5       | 5       | 7.5     |
| $\psi D'$ | D + 0.3 max |         |         |         |
| L'        | L + 0.5 max |         |         |         |

### ◆ PART NUMBERING SYSTEM

| SF     | □□□        | □              | □□□           | □           | □□          |
|--------|------------|----------------|---------------|-------------|-------------|
| Series | Rated Cap. | Cap. Tolerance | Rated Voltage | Case Size D | Case Size L |

# Aluminum Electrolytic Capacitors

## RF Series

### ■ STANDARD RATINGS

| <div> <div>WV</div> <div>uF</div> </div> | 300WV |     |     |    |      |      |    |    |      |    |      |    |      |    |    |    |
|------------------------------------------|-------|-----|-----|----|------|------|----|----|------|----|------|----|------|----|----|----|
|                                          | ΦD    | 9.2 | 9.5 | 10 | 10.3 | 10.6 | 11 | 12 | 12.5 | 13 | 13.5 | 14 | 14.5 | 16 | 18 | 20 |
| 30                                       | L     | 16  | 15  |    |      |      |    |    |      |    |      |    |      |    |    |    |
| 47                                       |       | 22  | 21  | 19 | 18   |      |    |    |      |    |      |    |      |    |    |    |
| 50                                       |       | 23  | 22  | 20 | 19   | 18   | 17 |    |      |    |      |    |      |    |    |    |
| 55                                       |       | 25  | 24  | 21 | 20   | 19   | 18 | 14 |      |    |      |    |      |    |    |    |
| 60                                       |       | 27  | 26  | 23 | 22   | 20   | 19 | 15 |      |    |      |    |      |    |    |    |
| 70                                       |       | 30  | 29  | 25 | 24   | 22   | 21 | 17 | 16   |    |      |    |      |    |    |    |
| 80                                       |       | 34  | 33  | 28 | 27   | 25   | 23 | 18 | 17   |    |      |    |      |    |    |    |
| 100                                      |       | 41  | 40  | 34 | 32   | 30   | 28 | 22 | 20   |    |      |    |      |    |    |    |
| 110                                      |       |     | 42  | 37 | 35   | 32   | 30 | 23 | 22   | 21 |      |    |      |    |    |    |
| 120                                      |       |     |     | 40 | 43   | 35   | 32 | 25 | 24   | 23 |      |    |      |    |    |    |
| 140                                      |       |     |     |    | 48   | 40   | 36 | 28 | 25   | 24 |      |    |      |    |    |    |
| 160                                      |       |     |     |    |      | 44   | 41 | 31 | 30   | 29 | 27   | 25 | 23   | 21 |    |    |
| 180                                      |       |     |     |    |      |      | 45 | 34 | 33   | 32 | 30   | 27 | 26   | 23 | 22 |    |

| <div> <div>WV</div> <div>uF</div> </div> | 310WV |     |     |    |      |      |    |    |      |    |      |    |      |    |    |    |
|------------------------------------------|-------|-----|-----|----|------|------|----|----|------|----|------|----|------|----|----|----|
|                                          | ΦD    | 9.2 | 9.5 | 10 | 10.3 | 10.6 | 11 | 12 | 12.5 | 13 | 13.5 | 14 | 14.5 | 16 | 18 | 20 |
| 30                                       | L     | 17  |     |    |      |      |    |    |      |    |      |    |      |    |    |    |
| 47                                       |       | 23  | 22  |    |      |      |    |    |      |    |      |    |      |    |    |    |
| 50                                       |       | 24  | 23  | 20 |      |      |    |    |      |    |      |    |      |    |    |    |
| 55                                       |       | 26  | 25  | 22 | 21   |      |    |    |      |    |      |    |      |    |    |    |
| 60                                       |       | 28  | 26  | 23 | 22   | 21   |    |    |      |    |      |    |      |    |    |    |
| 70                                       |       | 31  | 30  | 26 | 25   | 23   | 22 | 17 |      |    |      |    |      |    |    |    |
| 80                                       |       | 35  | 33  | 29 | 28   | 26   | 24 | 19 | 18   |    |      |    |      |    |    |    |
| 100                                      |       | 43  | 40  | 35 | 33   | 31   | 28 | 22 | 21   |    |      |    |      |    |    |    |
| 110                                      |       | 46  | 43  | 38 | 36   | 33   | 31 | 24 | 23   | 22 |      |    |      |    |    |    |
| 120                                      |       |     | 47  | 40 | 39   | 36   | 33 | 25 | 24   | 23 |      |    |      |    |    |    |
| 140                                      |       |     |     | 46 | 44   | 41   | 38 | 29 | 28   | 27 |      |    |      |    |    |    |
| 160                                      |       |     |     |    |      | 46   | 42 | 32 | 31   | 30 | 28   | 26 | 24   |    |    |    |
| 180                                      |       |     |     |    |      |      | 47 | 35 | 34   | 33 | 30   | 28 | 27   | 24 | 22 |    |

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## ■ STANDARD RATINGS

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