

LARGE CAN TYPE ALUMINUM ELECTROLYTIC CAPACITORS

■ RSP SERIES

Self-supporting, snap and lock terminal type Electrolytic Capacitor with 2000 hour life at 85°C

■ FEATURES

1. High ripple current capability with smaller size.
2. 2000 hour minimum life at 85°C
3. Each rating has various sizes to expand flexibility in circuit design(see size table)



■ SPECIFICATION TABLE

| 1           | OPERATING TEMPERATURE RANGE                                    | -40°C ~ +85°C   | -25°C ~ +85°C                         |        |         |         |       |        |         |         |       |  |  |      |      |      |      |           |  |      |      |      |  |  |             |  |      |      |      |  |  |        |  |      |      |  |  |  |
|-------------|--|---|---------------------------------------|--------|---------|---------|-------|--------|---------|---------|-------|--|--|------|------|------|------|-----------|--|------|------|------|--|--|-------------|--|------|------|------|--|--|--------|--|------|------|--|--|--|
| 2           | RATED VOLTAGE RANGE  | 10~250V.DC  | 315~400V.DC                           |        |         |         |       |        |         |         |       |  |  |      |      |      |      |           |  |      |      |      |  |  |             |  |      |      |      |  |  |        |  |      |      |  |  |  |
| 3           | CAPACITANCE TOLERANCE (120Hz)                                  | -20% ~ +20% (20°C)  |                                       |        |         |         |       |        |         |         |       |  |  |      |      |      |      |           |  |      |      |      |  |  |             |  |      |      |      |  |  |        |  |      |      |  |  |  |
| 4           | LEAKAGE CURRENT<br>(After applied rated voltage for 5minutes.) | I = 0.02CV or 3mA whichever is smaller<br>I = Leakage current(µA), C = Nominal capacitance (µF), V = Rated voltage(V.DC)  |                                       |        |         |         |       |        |         |         |       |  |  |      |      |      |      |           |  |      |      |      |  |  |             |  |      |      |      |  |  |        |  |      |      |  |  |  |
| 5           | DISSIPATION FACTOR<br>(tan δ)                                  | Shall be less than the table below<br><table border="1"> <thead> <tr> <th>Cap</th> <th>WV</th> <th>10~25</th> <th>35~50</th> <th>63~100</th> <th>160~250</th> <th>315~400</th> </tr> </thead> <tbody> <tr> <td>~2200</td> <td></td> <td></td> <td>0.25</td> <td>0.20</td> <td>0.10</td> <td>0.25</td> </tr> <tr> <td>3300~6800</td> <td></td> <td>0.35</td> <td>0.30</td> <td>0.30</td> <td></td> <td></td> </tr> <tr> <td>10000~15000</td> <td></td> <td>0.40</td> <td>0.35</td> <td>0.35</td> <td></td> <td></td> </tr> <tr> <td>22000~</td> <td></td> <td>0.55</td> <td>0.45</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> (20°C 120Hz) |                                       | Cap    | WV      | 10~25   | 35~50 | 63~100 | 160~250 | 315~400 | ~2200 |  |  | 0.25 | 0.20 | 0.10 | 0.25 | 3300~6800 |  | 0.35 | 0.30 | 0.30 |  |  | 10000~15000 |  | 0.40 | 0.35 | 0.35 |  |  | 22000~ |  | 0.55 | 0.45 |  |  |  |
| Cap         | WV   | 10~25   | 35~50                                 | 63~100 | 160~250 | 315~400 |       |        |         |         |       |  |  |      |      |      |      |           |  |      |      |      |  |  |             |  |      |      |      |  |  |        |  |      |      |  |  |  |
| ~2200       |  |   | 0.25                                  | 0.20   | 0.10    | 0.25    |       |        |         |         |       |  |  |      |      |      |      |           |  |      |      |      |  |  |             |  |      |      |      |  |  |        |  |      |      |  |  |  |
| 3300~6800   |  | 0.35  | 0.30                                  | 0.30   |         |         |       |        |         |         |       |  |  |      |      |      |      |           |  |      |      |      |  |  |             |  |      |      |      |  |  |        |  |      |      |  |  |  |
| 10000~15000 |  | 0.40  | 0.35                                  | 0.35   |         |         |       |        |         |         |       |  |  |      |      |      |      |           |  |      |      |      |  |  |             |  |      |      |      |  |  |        |  |      |      |  |  |  |
| 22000~      |  | 0.55  | 0.45                                  |        |         |         |       |        |         |         |       |  |  |      |      |      |      |           |  |      |      |      |  |  |             |  |      |      |      |  |  |        |  |      |      |  |  |  |
| 6           | LIFE TEST AT 85°C AND RATED VOLTAGE                            | TEST HOURS  | 2000 hours at max.temperature         |        |         |         |       |        |         |         |       |  |  |      |      |      |      |           |  |      |      |      |  |  |             |  |      |      |      |  |  |        |  |      |      |  |  |  |
|             |  | LEAKAGE CURRENT   | Less than the value given in column 4 |        |         |         |       |        |         |         |       |  |  |      |      |      |      |           |  |      |      |      |  |  |             |  |      |      |      |  |  |        |  |      |      |  |  |  |
|             |  | CAPACITANCE CHANGE  | Within ±20% of the initial value      |        |         |         |       |        |         |         |       |  |  |      |      |      |      |           |  |      |      |      |  |  |             |  |      |      |      |  |  |        |  |      |      |  |  |  |
|             |  | DF(tan δ)   | Less than 200% of column 5            |        |         |         |       |        |         |         |       |  |  |      |      |      |      |           |  |      |      |      |  |  |             |  |      |      |      |  |  |        |  |      |      |  |  |  |
| 7           | IMPEDANCE RATIO  | WV  | 10~250                                |        |         |         |       |        |         |         |       |  |  |      |      |      |      |           |  |      |      |      |  |  |             |  |      |      |      |  |  |        |  |      |      |  |  |  |
|             |  | Z(-25°C)/Z(+20°C)   | ≤3                                    |        |         |         |       |        |         |         |       |  |  |      |      |      |      |           |  |      |      |      |  |  |             |  |      |      |      |  |  |        |  |      |      |  |  |  |
|             |  | Z(-40°C)/Z(+20°C)   | ≤12                                   |        |         |         |       |        |         |         |       |  |  |      |      |      |      |           |  |      |      |      |  |  |             |  |      |      |      |  |  |        |  |      |      |  |  |  |
| 8           | OTHERS   | Comply with JIS-C-5141 characteristic W   |                                       |        |         |         |       |        |         |         |       |  |  |      |      |      |      |           |  |      |      |      |  |  |             |  |      |      |      |  |  |        |  |      |      |  |  |  |

■ PART NUMBER



Case Code

|           |    |    |    |    |
|-----------|----|----|----|----|
| φD(mm)    | 22 | 25 | 30 | 35 |
| Case Code | A  | B  | C  | D  |

■ DIMENSIONS

UNIT : mm

