



REB L88-01(RSP)

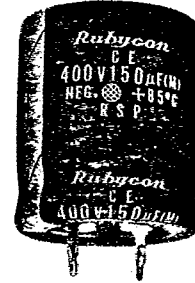
LARGE CAN TYPE ALUMINUM ELECTROLYTIC CAPACITORS

RSP SERIES

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

FEATURES

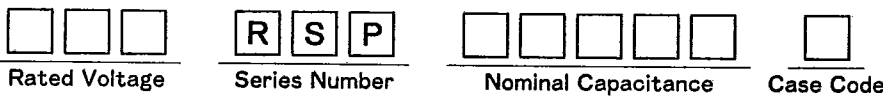
1. High ripple current capability with smaller size.
2. 2000 hour minimum life at 85°C
3. Each rating has various sizes to expand flexibility in circuit design(see size table)



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 (After applied rated voltage for 5minutes.) | I = 0.02CV or 3mA whichever is smaller I = Leakage current(µA), C = Nominal capacitance (µF), V = Rated voltage(V.DC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | DISSIPATION FACTOR (tan δ) | Shall be less than the table below <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 | <table border="1"> <thead> <tr> <th>WV</th> <th>10~250</th> <th>315~400</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(+20°C)</td> <td>≤3</td> <td>≤4</td> </tr> <tr> <td>Z(-40°C)/Z(+20°C)</td> <td>≤12</td> <td></td> </tr> </tbody> </table> (120Hz) | WV | 10~250 | 315~400 | Z(-25°C)/Z(+20°C) | ≤3 | ≤4 | Z(-40°C)/Z(+20°C) | ≤12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WV | 10~250 | 315~400 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Z(-25°C)/Z(+20°C) | ≤3 | ≤4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Z(-40°C)/Z(+20°C) | ≤12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. | OTHERS | Comply with JIS-C-5141 characteristic W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

PART NUMBER

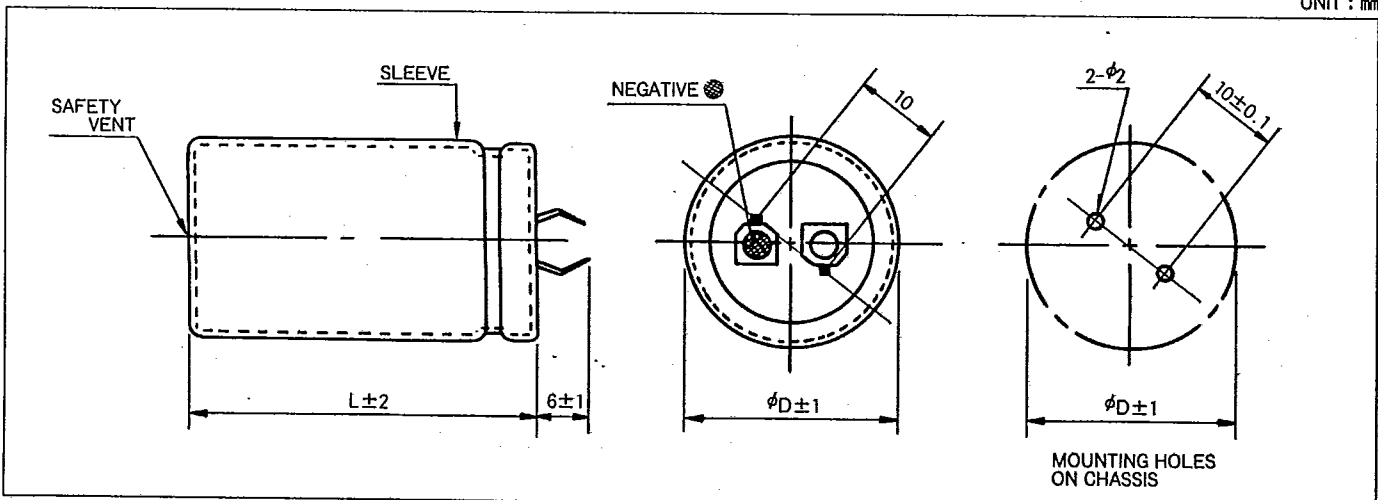


Case Code

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

DIMENSIONS

UNIT : mm



REB L88-01(RSP)

LARGE CAN TYPE ALUMINUM ELECTROLYTIC CAPACITORS

■ LIST OF STANDARD PRODUCTS

| Cap(μF) | WV | φD | 10 | | | | 16 | | | | | | | | | |
|---------|----|-------|---------|---------|---------|---------|---------|---------|---------|---------|-------|------|-------|------|-------|------|
| | | | φ22 (A) | φ25 (B) | φ30 (C) | φ35 (D) | φ22 (A) | φ25 (B) | φ30 (C) | φ35 (D) | | | | | | |
| 6800 | | | | | | | 22×25 | 2.19 | | | | | | | | |
| 10000 | | 22×25 | 2.20 | | | | 22×35 | 3.07 | 25×30 | 3.04 | 30×25 | 3.06 | | | | |
| 15000 | | 22×35 | 3.11 | 25×30 | 3.08 | 30×25 | 3.17 | | 22×40 | 3.76 | 25×35 | 3.74 | 30×30 | 3.79 | | |
| 22000 | | 22×40 | 3.74 | 25×35 | 3.72 | 30×30 | 3.77 | | | | 25×45 | 4.15 | 30×40 | 4.25 | 35×30 | 4.03 |
| 33000 | | | | 25×45 | 4.65 | 30×40 | 4.51 | 35×35 | 4.54 | | | | 30×45 | 5.43 | 35×40 | 4.96 |

| Cap(μF) | WV | φD | 25 | | | | 35 | | | | | | | |
|---------|----|-------|---------|---------|---------|---------|---------|---------|---------|---------|-------|------|-------|------|
| | | | φ22 (A) | φ25 (B) | φ30 (C) | φ35 (D) | φ22 (A) | φ25 (B) | φ30 (C) | φ35 (D) | | | | |
| 3300 | | | | | | | 22×25 | 1.82 | | | | | | |
| 4700 | | 22×25 | 2.00 | | | | 22×30 | 2.01 | 25×25 | 1.97 | | | | |
| 6800 | | 22×30 | 2.37 | 25×25 | 2.32 | | 22×40 | 2.74 | 25×35 | 2.73 | 30×30 | 2.77 | | |
| 10000 | | 22×40 | 3.01 | 25×35 | 3.00 | 30×30 | 3.04 | | 25×45 | 3.54 | 30×35 | 3.43 | 35×30 | 3.43 |
| 15000 | | | | 25×45 | 3.96 | 30×35 | 3.83 | 35×30 | 3.84 | | 30×45 | 4.07 | 35×35 | 4.13 |
| 22000 | | | | | | 30×45 | 4.59 | 35×35 | 4.62 | | | | 35×45 | 4.89 |

| Cap(μF) | WV | φD | 50 | | | | 63 | | | | | | | | |
|---------|----|-------|---------|---------|---------|---------|---------|---------|---------|---------|-------|-------|-------|-------|------|
| | | | φ22 (A) | φ25 (B) | φ30 (C) | φ35 (D) | φ22 (A) | φ25 (B) | φ30 (C) | φ35 (D) | | | | | |
| 2200 | | 22×25 | 1.63 | | | | 22×30 | 1.70 | 25×25 | 1.67 | | | | | |
| 3300 | | 22×35 | 2.16 | 25×25 | 1.98 | | 22×40 | 2.29 | 25×35 | 1.99 | 30×25 | 1.88 | | | |
| 4700 | | 22×40 | 2.23 | 25×35 | 2.17 | 30×25 | 2.05 | | 25×40 | 2.94 | 30×35 | 2.40 | 35×30 | 2.40 | |
| 6800 | | | | 25×45 | 3.26 | 30×35 | 3.16 | 35×30 | 3.17 | 25×50 | 3.01 | 30×40 | 2.99 | 35×35 | 3.01 |
| 10000 | | | | | | 30×45 | 3.48 | 35×35 | 3.33 | | | | | 35×45 | 4.05 |
| 15000 | | | | | | | | 35×45 | 4.52 | | | | | | |

| Cap(μF) | WV | φD | 80 | | | | 100 | | | | | | | | |
|---------|----|-------|---------|---------|---------|---------|---------|---------|---------|---------|-------|-------|-------|-------|------|
| | | | φ22 (A) | φ25 (B) | φ30 (C) | φ35 (D) | φ22 (A) | φ25 (B) | φ30 (C) | φ35 (D) | | | | | |
| 1000 | | | | | | | 22×30 | 1.40 | 25×25 | 1.38 | | | | | |
| 2200 | | 22×40 | 2.10 | 25×35 | 1.99 | 30×30 | 2.01 | | 22×50 | 2.29 | 25×40 | 2.18 | 30×30 | 2.09 | |
| 3300 | | 22×50 | 2.53 | 25×45 | 2.22 | 30×35 | 2.15 | | | | | 30×40 | 2.74 | 35×35 | 2.70 |
| 4700 | | | | | | 30×45 | 2.85 | 35×35 | 2.73 | | | | | 35×45 | 3.58 |
| 6800 | | | | | | | | 35×45 | 3.73 | | | | | | |

| Cap(μF) | WV | φD | 160 | | | | 180 | | | | | | | | | |
|---------|----|-------|---------|---------|---------|---------|---------|---------|---------|---------|-------|------|-------|------|-------|------|
| | | | φ22 (A) | φ25 (B) | φ30 (C) | φ35 (D) | φ22 (A) | φ25 (B) | φ30 (C) | φ35 (D) | | | | | | |
| 220 | | | | | | | 22×25 | 0.98 | | | | | | | | |
| 330 | | 22×30 | 1.29 | | | | 22×30 | 1.29 | 25×25 | 1.27 | | | | | | |
| 470 | | 22×35 | 1.66 | 25×30 | 1.69 | 30×25 | 1.56 | | 22×40 | 1.75 | 25×30 | 1.64 | 30×25 | 1.56 | | |
| 680 | | 22×45 | 2.23 | 25×40 | 2.23 | 30×30 | 1.98 | | 22×50 | 2.33 | 25×40 | 2.23 | 30×35 | 2.28 | | |
| 820 | | | | 25×45 | 2.57 | 30×35 | 2.42 | 35×30 | 2.21 | | 25×50 | 2.70 | 30×40 | 2.64 | 35×30 | 2.22 |
| 1000 | | | | 25×45 | 2.84 | 30×40 | 2.83 | 35×35 | 2.62 | | | | 30×45 | 3.06 | 35×35 | 2.62 |
| 1500 | | | | | | | | 35×45 | 3.61 | | | | | | 35×45 | 3.61 |

Ripple Current Arms/120Hz,85°C
Case Size φD⁺¹×L^{±2}(mm)

A-05-11-03



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LARGE CAN TYPE ALUMINUM ELECTROLYTIC CAPACITORS

LIST OF STANDARD PRODUCTS

| Cap(μF) | WV | φD | 200 | | | | 250 | | | | | | | | |
|---------|----|----|---------|---------|---------|---------|---------|---------|---------|---------|------|-------|------|-------|------|
| | | | φ22 (A) | φ25 (B) | φ30 (C) | φ35 (D) | φ22 (A) | φ25 (B) | φ30 (C) | φ35 (D) | | | | | |
| 220 | | | 22×25 | 0.98 | | | | | | 22×30 | 1.06 | 25×25 | 1.03 | | |
| 330 | | | 22×35 | 1.39 | 25×30 | 1.37 | | | | 22×40 | 1.47 | 25×35 | 1.47 | 30×30 | 1.48 |
| 470 | | | 22×45 | 1.85 | 25×35 | 1.75 | 30×30 | 1.77 | | | | 25×45 | 1.94 | 30×35 | 1.89 |
| 680 | | | | | 25×45 | 2.34 | 30×35 | 2.28 | 35×30 | 2.12 | | | | 30×45 | 2.53 |
| 820 | | | | | 25×50 | 2.70 | 30×40 | 2.64 | 35×30 | 2.32 | | | | 30×50 | 2.90 |
| 1000 | | | | | | | 30×45 | 3.06 | 35×35 | 2.59 | | | | 35×45 | 3.19 |

| Cap(μF) | WV | φD | 315 | | | | 350 | | | | | | | | |
|---------|----|----|---------|---------|---------|---------|---------|---------|---------|---------|------|-------|------|-------|------|
| | | | φ22 (A) | φ25 (B) | φ30 (C) | φ35 (D) | φ22 (A) | φ25 (B) | φ30 (C) | φ35 (D) | | | | | |
| 68 | | | | | | | | | | 22×25 | 0.46 | | | | |
| 82 | | | 22×25 | 0.44 | | | | | | 22×30 | 0.55 | 25×25 | 0.53 | | |
| 100 | | | 22×30 | 0.53 | 25×25 | 0.52 | | | | 22×35 | 0.67 | 25×30 | 0.66 | | |
| 150 | | | 22×35 | 0.70 | 25×30 | 0.69 | 30×25 | 0.70 | | 22×45 | 0.88 | 25×35 | 0.82 | 30×30 | 0.84 |
| 220 | | | 22×45 | 0.94 | 25×40 | 0.94 | 30×30 | 0.90 | | | | 25×45 | 1.04 | 30×35 | 1.00 |
| 330 | | | | | 25×50 | 1.21 | 30×40 | 1.18 | 35×30 | 1.12 | | | | 30×50 | 1.43 |
| 470 | | | | | | | 30×50 | 1.60 | 35×40 | 1.57 | | | | | |

Ripple Current Arms/120Hz,85°C
Case Size φD^{±1} × L^{±2}(mm)

| Cap(μF) | WV | φD | 400 | | | |
|---------|----|----|---------|---------|---------|---------|
| | | | φ22 (A) | φ25 (B) | φ30 (C) | φ35 (D) |
| 47 | | | 22×25 | 0.42 | | |
| 68 | | | 22×30 | 0.52 | 25×25 | 0.51 |
| 82 | | | 22×30 | 0.56 | 25×25 | 0.54 |
| 100 | | | 22×40 | 0.59 | 25×30 | 0.66 |
| 150 | | | 22×50 | 0.95 | 25×40 | 0.91 |
| 220 | | | | | 25×50 | 1.21 |
| 330 | | | | | 30×40 | 1.18 |
| | | | | | 30×50 | 1.60 |

RMS RIPPLE CURRENT COEFFICIENT

1)Temperature Coefficient

| | | | |
|-------------------------|-----|------|----------|
| Ambient Temperature(°C) | 85 | 65 | 40&under |
| Temperature Coefficient | 1.0 | 1.24 | 1.60 |

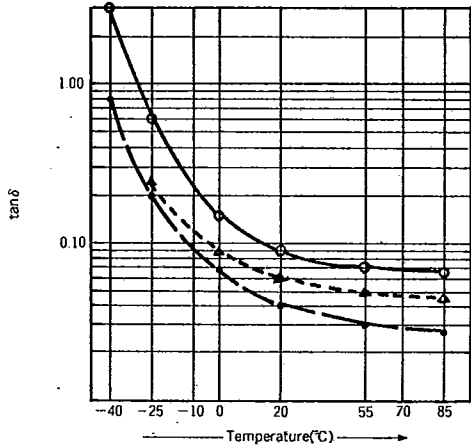
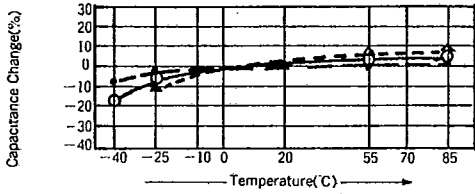
2)Frequency Coefficient

| | | | | | | |
|-----------------------|-----------|------|------|------|------|------|
| Frequency(Hz) | | 60 | 120 | 500 | 1k | 10k |
| Frequency Coefficient | 10~100WV | 0.90 | 1.00 | 1.05 | 1.10 | 1.15 |
| | 160~250WV | 0.80 | 1.00 | 1.20 | 1.30 | 1.50 |
| | 315~400WV | 0.80 | 1.00 | 1.05 | 1.10 | 1.15 |

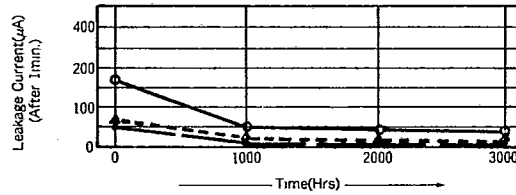
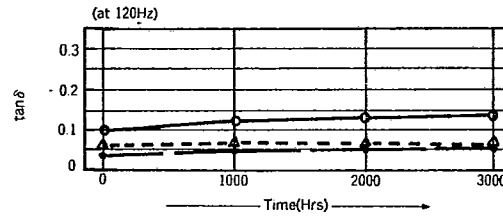
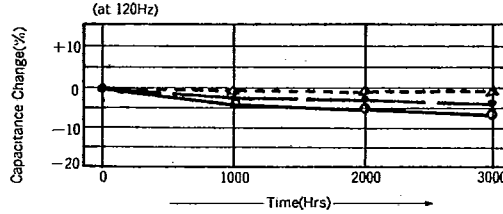
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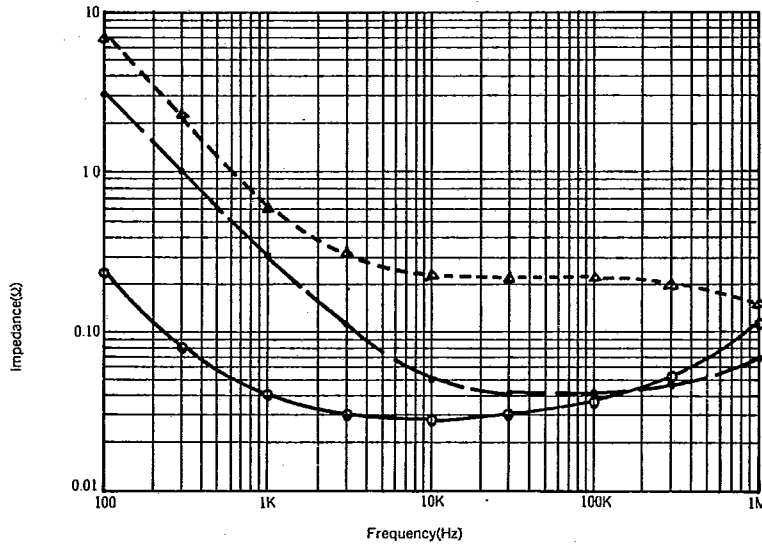
1) Temperature Characteristics



2) Load Life at 85°C



3) Frequency Characteristics



- — 35RSP6800 A
- — 200RSP470 A
- △ — 400RSP220 C