

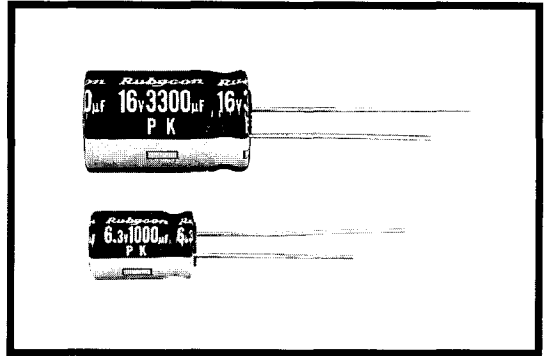
PK シリーズ  
SERIES

UPGRADE

85°C 小形化品 85°C Miniaturized

◆特長 FEATURES

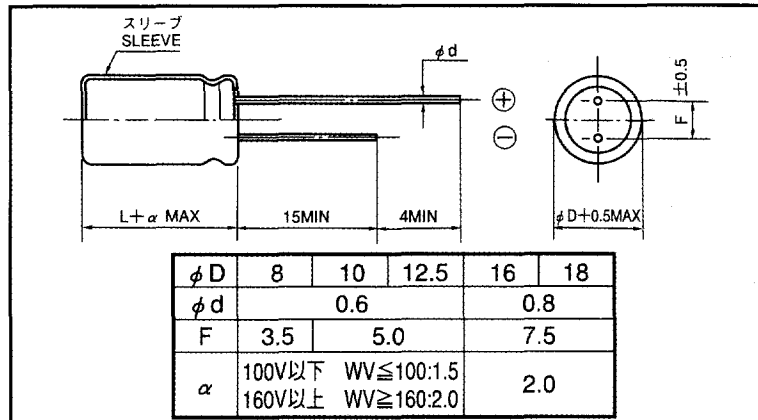
- 85°C, 2000時間品。 Load life : 85°C 2000 hours.



◆規格表 SPECIFICATIONS

| 項目 Items   | 特 性 Characteristics  |   |   |      |      |      |      |      |      |      |      |      |                          |      |     |    |    |    |    |    |     |     |     |     |     |     |     |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                  |    |    |   |   |   |   |   |   |   |   |   |   |    |   |         |
|--|--|---|---|------|------|------|------|------|------|------|------|------|--------------------------|------|-----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------------------|----|----|---|---|---|---|---|---|---|---|---|---|----|---|---------|
| カテゴリ温度範囲<br>Category Temperature Range   | -40~+85°C  | -25~+85°C   |   |      |      |      |      |      |      |      |      |      |                          |      |     |    |    |    |    |    |     |     |     |     |     |     |     |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                  |    |    |   |   |   |   |   |   |   |   |   |   |    |   |         |
| 定格電圧範囲<br>Rated Voltage Range  | 6.3~400V.DC  | 450V.DC   |   |      |      |      |      |      |      |      |      |      |                          |      |     |    |    |    |    |    |     |     |     |     |     |     |     |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                  |    |    |   |   |   |   |   |   |   |   |   |   |    |   |         |
| 静電容量許容差<br>Capacitance Tolerance   | ±20%(20°C, 120Hz)  |   |   |      |      |      |      |      |      |      |      |      |                          |      |     |    |    |    |    |    |     |     |     |     |     |     |     |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                  |    |    |   |   |   |   |   |   |   |   |   |   |    |   |         |
| 漏れ電流<br>Leakage Current(MAX)   | 6.3~100V.DC  | 160~450V.DC   |   |      |      |      |      |      |      |      |      |      |                          |      |     |    |    |    |    |    |     |     |     |     |     |     |     |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                  |    |    |   |   |   |   |   |   |   |   |   |   |    |   |         |
|  | I=0.01CV又は3µAのいずれか大なる値以下<br>I=0.01CV or 3µA whichever is greater.<br>(定格電圧印加2分後)<br>(After 2 minutes application of rated voltage)   | CV≤1000   | CV>1000   |      |      |      |      |      |      |      |      |      |                          |      |     |    |    |    |    |    |     |     |     |     |     |     |     |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                  |    |    |   |   |   |   |   |   |   |   |   |   |    |   |         |
|  |  | I=0.1CV+40µA以下(1分値)<br>I=0.1CV+40µA (1minute)<br>I=0.03CV+15µA以下(5分値)<br>I=0.03CV+15µA (5minutes) | I=0.04CV+100µA以下(1分値)<br>I=0.04CV+100µA (1minute)<br>I=0.02CV+25µA以下(5分値)<br>I=0.02CV+25µA (5minutes) |      |      |      |      |      |      |      |      |      |                          |      |     |    |    |    |    |    |     |     |     |     |     |     |     |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                  |    |    |   |   |   |   |   |   |   |   |   |   |    |   |         |
|  | I=漏れ電流(µA)<br>Leakage Current  | C=定格静電容量(µF)<br>Rated Capacitance   |   |      |      |      |      |      |      |      |      |      |                          |      |     |    |    |    |    |    |     |     |     |     |     |     |     |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                  |    |    |   |   |   |   |   |   |   |   |   |   |    |   |         |
| 損失角の正接(tanδ)<br>Dissipation Factor(MAX)  | <table border="1"> <thead> <tr> <th>定格電圧(V)<br/>Rated Voltage</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>450</th> </tr> </thead> <tbody> <tr> <td>tan δ</td> <td>0.28</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.10</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td>0.25</td> <td>0.25</td> <td>0.25</td> </tr> </tbody> </table>  |   |   |      |      |      |      |      |      |      |      |      | 定格電圧(V)<br>Rated Voltage | 6.3  | 10  | 16 | 25 | 35 | 50 | 63 | 100 | 160 | 200 | 250 | 350 | 400 | 450 | tan δ            | 0.28 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.10 | 0.10 | 0.20 | 0.20 | 0.20 | 0.25 | 0.25 | 0.25 | (20°C, 120Hz)    |    |    |   |   |   |   |   |   |   |   |   |   |    |   |         |
|  | 定格電圧(V)<br>Rated Voltage   | 6.3   | 10  | 16   | 25   | 35   | 50   | 63   | 100  | 160  | 200  | 250  | 350                      | 400  | 450 |    |    |    |    |    |     |     |     |     |     |     |     |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                  |    |    |   |   |   |   |   |   |   |   |   |   |    |   |         |
| tan δ  | 0.28   | 0.24  | 0.20  | 0.16 | 0.14 | 0.12 | 0.10 | 0.10 | 0.20 | 0.20 | 0.20 | 0.25 | 0.25                     | 0.25 |     |    |    |    |    |    |     |     |     |     |     |     |     |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                  |    |    |   |   |   |   |   |   |   |   |   |   |    |   |         |
| 1000µFを越えるものは1000µF増す毎に上表の値に0.02を加えた値とする。<br>When rated capacitance is over 1000µF, tan δ shall be added 0.02 to the listed value with increase of every 1000µF. |  |   |   |      |      |      |      |      |      |      |      |      |                          |      |     |    |    |    |    |    |     |     |     |     |     |     |     |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                  |    |    |   |   |   |   |   |   |   |   |   |   |    |   |         |
| 耐 久 性<br>Endurance   | 85°C中2000時間定格電圧(リップル重畳)印加後、下記項目を満足すること。<br>After applying rated voltage with rated ripple current for 2000hrs at 85°C, the capacitors shall meet the following requirements.   |   |   |      |      |      |      |      |      |      |      |      |                          |      |     |    |    |    |    |    |     |     |     |     |     |     |     |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                  |    |    |   |   |   |   |   |   |   |   |   |   |    |   |         |
|  | 静電容量変化率<br>Capacitance Change  | 初期値の±25%以内<br>Within ±25% of the initial value.   |   |      |      |      |      |      |      |      |      |      |                          |      |     |    |    |    |    |    |     |     |     |     |     |     |     |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                  |    |    |   |   |   |   |   |   |   |   |   |   |    |   |         |
|  | 損失角の正接<br>Dissipation Factor   | 規格値の200%以下<br>Not more than 200% of the specified value.  |   |      |      |      |      |      |      |      |      |      |                          |      |     |    |    |    |    |    |     |     |     |     |     |     |     |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                  |    |    |   |   |   |   |   |   |   |   |   |   |    |   |         |
| 漏れ電流<br>Leakage Current  | 規格値以下<br>Not more than the specified value.  |   |   |      |      |      |      |      |      |      |      |      |                          |      |     |    |    |    |    |    |     |     |     |     |     |     |     |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                  |    |    |   |   |   |   |   |   |   |   |   |   |    |   |         |
| 低温特性<br>Low Temperature Stability<br>(インピーダンス比)<br>Impedance Ratio(MAX)  | <table border="1"> <thead> <tr> <th>定格電圧(V)<br/>Rated Voltage</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>450</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>5</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>3</td> <td>3</td> <td>4</td> <td>5</td> <td>5</td> <td>7</td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>12</td> <td>10</td> <td>8</td> <td>5</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>4</td> <td>4</td> <td>8</td> <td>8</td> <td>10</td> <td>—</td> </tr> </tbody> </table> |   |   |      |      |      |      |      |      |      |      |      | 定格電圧(V)<br>Rated Voltage | 6.3  | 10  | 16 | 25 | 35 | 50 | 63 | 100 | 160 | 200 | 250 | 350 | 400 | 450 | Z(-25°C)/Z(20°C) | 5    | 4    | 3    | 2    | 2    | 2    | 2    | 2    | 3    | 3    | 4    | 5    | 5    | 7    | Z(-40°C)/Z(20°C) | 12 | 10 | 8 | 5 | 4 | 3 | 3 | 3 | 4 | 4 | 8 | 8 | 10 | — | (120Hz) |
|  | 定格電圧(V)<br>Rated Voltage   | 6.3   | 10  | 16   | 25   | 35   | 50   | 63   | 100  | 160  | 200  | 250  | 350                      | 400  | 450 |    |    |    |    |    |     |     |     |     |     |     |     |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                  |    |    |   |   |   |   |   |   |   |   |   |   |    |   |         |
|  | Z(-25°C)/Z(20°C)   | 5   | 4   | 3    | 2    | 2    | 2    | 2    | 2    | 3    | 3    | 4    | 5                        | 5    | 7   |    |    |    |    |    |     |     |     |     |     |     |     |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                  |    |    |   |   |   |   |   |   |   |   |   |   |    |   |         |
| Z(-40°C)/Z(20°C)   | 12   | 10  | 8   | 5    | 4    | 3    | 3    | 3    | 4    | 4    | 8    | 8    | 10                       | —    |     |    |    |    |    |    |     |     |     |     |     |     |     |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                  |    |    |   |   |   |   |   |   |   |   |   |   |    |   |         |
|  |  |   |   |      |      |      |      |      |      |      |      |      |                          |      |     |    |    |    |    |    |     |     |     |     |     |     |     |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                  |    |    |   |   |   |   |   |   |   |   |   |   |    |   |         |

◆寸法図 DIMENSIONS



◆リップル電流補正係数

MULTIPLIER FOR RIPPLE CURRENT

(1) 周波数係数 Frequency coefficient

| 周波数(Hz)<br>Frequency | 60(50) | 120  | 500  | 1k   | 10k≤ |
|----------------------|--------|------|------|------|------|
| 2.2~47µF             | 0.80   | 1.00 | 1.20 | 1.30 | 1.50 |
| 100~1000µF           | 0.80   | 1.00 | 1.10 | 1.15 | 1.20 |
| 2200~33000µF         | 0.80   | 1.00 | 1.05 | 1.10 | 1.15 |

(2) 周囲温度係数 Temperature coefficient

| 周囲温度(°C)<br>Ambient Temperature | 85  | 70  | 50≥ |
|---------------------------------|-----|-----|-----|
| 係数<br>Coefficient               | 1.0 | 1.6 | 2.0 |

◆呼称方法 PART NUMBER

PK    DXL  
 定格電圧 シリーズ名 定格静電容量 静電容量許容差 副記号 リード加工記号 ケースサイズ  
 Rated Voltage Series Rated Capacitance Capacitance Tolerance Option Lead Forming Case Size



# 小形アルミニウム電解コンデンサ

## MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

PK

### ◆寸法一覧表, 定格リップル電流一覧表 STANDARD SIZE, RATED RIPPLE CURRENT

Size  $\phi$  D×L(mm), Ripple Current (mA r.m.s./85°C, 120Hz)

| 定格電圧<br>VV(V.DC)<br>定格<br>静電容量<br>Cap(μF) | 6.3<br>(0J) |        | 10<br>(1A) |        | 16<br>(1C) |        | 25<br>(1E) |        | 35<br>(1V) |        | 50<br>(1H) |        | 63<br>(1J) |        |
|---|-------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|
|   | Size        | Ripple | Size       | Ripple | Size       | Ripple | Size       | Ripple | Size       | Ripple | Size       | Ripple | Size       | Ripple |
| 100                                       |             |        |            |        |            |        |            |        |            |        |            |        | 8×11.5     | 290    |
| 220                                       |             |        |            |        |            |        |            |        | 8×11.5     | 370    | 10×12.5    | 435    | 10×16      | 490    |
| 330                                       |             |        |            |        |            |        | 8×11.5     | 410    | 10×12.5    | 500    | 10×16      | 590    | 10×20      | 710    |
| 470                                       |             |        |            |        | 8×11.5     | 460    | 8×11.5     | 550    | 10×12.5    | 680    | 10×20      | 760    | 12.5×20    | 900    |
| 680                                       |             |        | 8×11.5     | 580    | 8×11.5     | 620    | 10×12.5    | 780    | 10×16      | 910    | 12.5×20    | 1000   | 12.5×25    | 1200   |
| 1000                                      | 8×11.5      | 590    | 8×11.5     | 660    | 10×12.5    | 720    | 10×16      | 870    | 10×20      | 1180   | 12.5×25    | 1350   | 16×25      | 1350   |
| 2200                                      | 10×16       | 920    | 10×16      | 1090   | 10×20      | 1320   | 12.5×20    | 1500   | 16×25      | 1810   | 16×31.5    | 1980   | 18×31.5    | 1800   |
| 3300                                      | 10×20       | 1200   | 10×20      | 1440   | 12.5×20    | 1600   | 16×25      | 2000   | 16×25      | 1990   | 18×31.5    | 2100   | 18×40      | 2600   |
| 4700                                      | 12.5×20     | 1550   | 12.5×20    | 1680   | 12.5×25    | 2050   | 16×25      | 2120   | 16×35.5    | 2500   | 18×40      | 2800   |            |        |
| 6800                                      | 12.5×25     | 1920   | 12.5×25    | 2150   | 16×25      | 2250   | 16×31.5    | 2440   | 18×35.5    | 2740   |            |        |            |        |
| 10000                                     | 16×25       | 2370   | 16×25      | 2270   | 16×31.5    | 2660   | 18×35.5    | 2900   |            |        |            |        |            |        |
| 15000                                     | 16×31.5     | 2550   | 16×35.5    | 2880   | 18×35.5    | 2950   |            |        |            |        |            |        |            |        |
| 22000                                     | 16×35.5     | 2900   | 18×35.5    | 3100   |            |        |            |        |            |        |            |        |            |        |
| 33000                                     | 18×40       | 3400   |            |        |            |        |            |        |            |        |            |        |            |        |

小形電解コンデンサ  
MINIATURE TYPE

| 定格電圧<br>VV(V.DC)<br>定格<br>静電容量<br>Cap(μF) | 100<br>(2A) |        | 160<br>(2C) |        | 200<br>(2D) |        | 250<br>(2E) |        | 350<br>(2V) |        | 400<br>(2G) |         | 450<br>(2W) |         |    |
|---|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|---------|-------------|---------|----|
|   | Size        | Ripple | Size        | Ripple | Size        | Ripple | Size        | Ripple | Size        | Ripple | Size        | Ripple  | Size        | Ripple  |    |
| 2.2                                       |             |        |             |        |             |        |             |        |             |        | 8×11.5      | 31      | 8×11.5      | 29      |    |
| 3.3                                       |             |        |             |        |             |        |             |        |             | 8×11.5 | 45          | 8×11.5  | 48          | 8×11.5  | 33 |
| 4.7                                       |             |        |             |        |             |        |             |        |             | 8×11.5 | 55          | 10×12.5 | 56          | 10×12.5 | 46 |
| 10  |             |        | 8×11.5      | 80     | 8×11.5      | 85     | 10×12.5     | 90     | 10×16       | 90     | 10×16       | 90      | 10×20       | 84      |    |
| 22  |             |        | 10×12.5     | 130    | 10×16       | 150    | 10×16       | 150    | 12.5×20     | 185    | 12.5×20     | 200     | 12.5×25     | 140     |    |
| 33  | 8×11.5      | 185    | 10×16       | 180    | 10×20       | 205    | 10×20       | 205    | 12.5×25     | 240    | 12.5×25     | 240     | 16×25       | 180     |    |
| 47  | 8×11.5      | 220    | 10×20       | 230    | 10×20       | 220    | 12.5×20     | 260    | 16×25       | 300    | 16×25       | 250     | 16×31.5     | 220     |    |
| 100                                       | 10×16       | 380    | 12.5×25     | 430    | 12.5×25     | 320    | 16×25       | 450    | 18×31.5     | 520    | 18×35.5     | 420     | 18×40       | 280     |    |
| 220                                       | 12.5×20     | 610    | 16×31.5     | 645    | 16×31.5     | 540    | 18×35.5     | 680    |             |        |             |         |             |         |    |
| 330                                       | 12.5×25     | 760    | 16×35.5     | 700    | 18×35.5     | 800    |             |        |             |        |             |         |             |         |    |
| 470                                       | 16×25       | 1000   | 18×40       | 1200   |             |        |             |        |             |        |             |         |             |         |    |
| 680                                       | 16×31.5     | 1100   |             |        |             |        |             |        |             |        |             |         |             |         |    |
| 1000                                      | 18×31.5     | 1200   |             |        |             |        |             |        |             |        |             |         |             |         |    |

$\phi$  5、 $\phi$  6.3についてはYKシリーズを御使用下さい。  
Please use YK series about  $\phi$  5 and  $\phi$  6.3.