

Rubycon

# リード線形アルミニウム電解コンデンサ

## RADIAL LEAD ALUMINUM ELECTROLYTIC CAPACITORS

PK

PK シリーズ  
SERIES

85°C 標準品  
85°C Standard

・85°C 2000時間品。  
Load Life : 85°C 2000 hours.

RoHS  
compliance



### ◆規格表／SPECIFICATIONS

| 項 目                           | Items                                                           | 特 性                                                                                                                                                                           |      |      |      |      |      |      |      |      |      |      |      |                           |      | Characteristics                                          |              |  |  |  |  |  |                                                   |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|---------------------------|------|----------------------------------------------------------|--------------|--|--|--|--|--|---------------------------------------------------|--|--|--|--|------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| カテ ゴ リ 温 度 範 囲                | Category Temperature Range                                      | -40~+85℃                                                                                                                                                                      |      |      |      |      |      |      |      |      |      |      |      |                           |      | -25~+85℃                                                 |              |  |  |  |  |  |                                                   |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 定 格 電 圧 範 囲                   | Rated Voltage Range                                             | 6.3~400Vdc                                                                                                                                                                    |      |      |      |      |      |      |      |      |      |      |      |                           |      | 450Vdc                                                   |              |  |  |  |  |  |                                                   |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 静 電 容 量 許 容 差                 | Capacitance Tolerance                                           | ±20%(20℃, 120Hz)                                                                                                                                                              |      |      |      |      |      |      |      |      |      |      |      |                           |      |                                                          |              |  |  |  |  |  |                                                   |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 漏 れ 電 流                       | Leakage Current(MAX)                                            | 6.3~100Vdc                                                                                                                                                                    |      |      |      |      |      |      |      |      |      |      |      |                           |      | 160~450Vdc                                               |              |  |  |  |  |  |                                                   |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                               |                                                                 | 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)            |              |  |  |  |  |  | I=0.04CV+100μA以下(1分値)<br>I=0.04CV+100μA (1minute) |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                               |                                                                 |                                                                                                                                                                               |      |      |      |      |      |      |      |      |      |      |      |                           |      | I=0.03CV+15μA以下(5分値)<br>I=0.03CV+15μA (5minutes)         |              |  |  |  |  |  | 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=静電容量(μF)<br>Capacitance |      |                                                          |              |  |  |  |  |  |                                                   |  |  |  |  | V=定格電圧(Vdc)<br>Rated Voltage |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 損 失 角 の 正 接 (tanδ)            | Dissipation Factor(MAX)                                         | 定格電圧(Vdc)<br>Rated Voltage                                                                                                                                                    | 6.3  | 10   | 16   | 25   | 35   | 50   | 63   | 100  | 160  | 200  | 250  | 350                       | 400  | 450                                                      | (20℃, 120Hz) |  |  |  |  |  |                                                   |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                               |                                                                 | tanδ                                                                                                                                                                          | 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 capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.                     |      |      |      |      |      |      |      |      |      |      |      |                           |      |                                                          |              |  |  |  |  |  |                                                   |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 耐 久 性                         | Endurance                                                       | 85℃中で2000時間定格電圧(リプル重畳)印加後、下記項目を満足すること。<br>After applying rated voltage with rated ripple current for 2000 hours at 85℃, 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                       | Low Temperature Stability<br>(インピーダンス比)<br>Impedance Ratio(MAX) | 定格電圧(Vdc)<br>Rated Voltage                                                                                                                                                    | 6.3  | 10   | 16   | 25   | 35   | 50   | 63   | 100  | 160  | 200  | 250  | 350                       | 400  | 450                                                      | (120Hz)      |  |  |  |  |  |                                                   |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                               |                                                                 | Z(-25℃)/Z(20℃)                                                                                                                                                                | 5    | 4    | 3    | 2    | 2    | 2    | 2    | 2    | 3    | 3    | 4    | 5                         | 5    | 7                                                        |              |  |  |  |  |  |                                                   |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                               |                                                                 | Z(-40℃)/Z(20℃)                                                                                                                                                                | 12   | 10   | 8    | 5    | 4    | 3    | 3    | 3    | 4    | 4    | 8    | 8                         | 10   | —                                                        |              |  |  |  |  |  |                                                   |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |

### ◆リプル電流補正係数／ MULTIPLIER FOR RIPPLE CURRENT

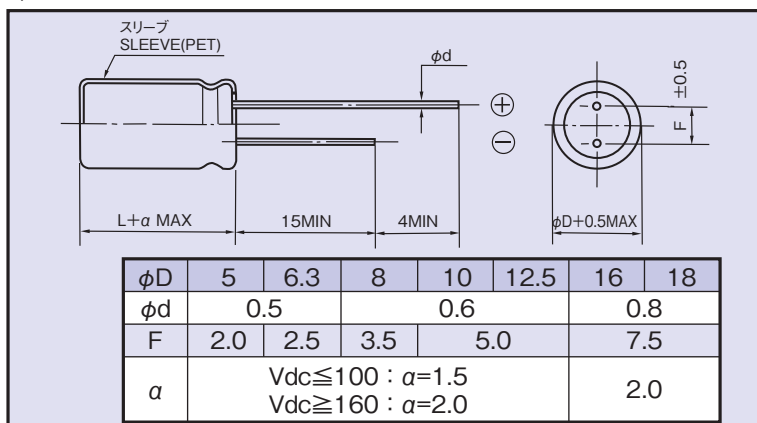
| 周波数(Hz)<br>Frequency | 60(50) | 120  | 500  | 1k   | 10k≤ |
|----------------------|--------|------|------|------|------|
| 係数<br>Coefficient    |        |      |      |      |      |
| 0.47~1µF             | 0.50   | 1.00 | 1.20 | 1.30 | 1.50 |
| 2.2~4.7µF            | 0.65   | 1.00 | 1.20 | 1.30 | 1.50 |
| 10~47µF              | 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 |

### ◆副記号／OPTION

| 記号 Code                |
|------------------------|
| PETスリーブ PET Sleeve EFC |

### ◆寸法図／DIMENSIONS

(mm)



### ◆呼称方法／PART NUMBER

|                       |                 |                     |                                  |               |                         |                     |
|-----------------------|-----------------|---------------------|----------------------------------|---------------|-------------------------|---------------------|
| □□□                   | PK              | □□□□□               | M                                | □□□           | □□                      | D×L                 |
| 定格電圧<br>Rated Voltage | シリーズ名<br>Series | 静電容量<br>Capacitance | 静電容量許容差<br>Capacitance Tolerance | 副記号<br>Option | リード加工記号<br>Lead Forming | ケースサイズ<br>Case Size |



## RADIAL LEAD ALUMINUM ELECTROLYTIC CAPACITORS

Size  $\phi D \times L$ (mm), Rated Ripple Current (mA r.m.s./85°C, 120Hz)[illegible]