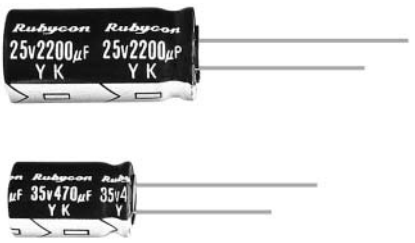
最終受注期日 [2012/09]

# 小形アルミニウム電解コンデンサ YK
## MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

**YK シリーズ SERIES**

**旧シリーズ**




**85℃ 標準品　85℃ Standard**

### ◆特　長／FEATURES

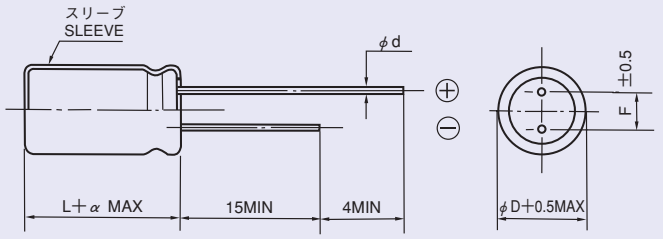
- 85℃, 2000時間品。
  Load life : 85℃ 2000 hours.
- RoHS指令対応品。
  RoHS compliance.

### ◆規格表／SPECIFICATIONS

| 項　目　Items | 特　性　Characteristics | |
|---|---|---|
| カテゴリ温度範囲<br>Category Temperature Range | −40～＋85℃ | −25～＋85℃ |
| 定格電圧範囲<br>Rated Voltage Range | 6.3～250V.DC | 350～450V.DC |
| 静電容量許容差<br>Capacitance Tolerance | ±20%(20℃, 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: 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)<br>CV＞1000: 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) Leakage Current　C＝定格静電容量(μF) Rated Capacitance　V＝定格電圧(V) Rated Voltage | |
| 損失角の正接(tanδ)<br>Dissipation Factor(MAX) | 定格電圧(V) Rated Voltage: 6.3, 10, 16, 25, 35, 50, 63, 100, 160, 200, 250, 350, 400, 450<br>tanδ: 0.26, 0.22, 0.18, 0.16, 0.14, 0.12, 0.10, 0.08, 0.20, 0.20, 0.20, 0.20, 0.20, 0.20 (20℃, 120Hz)<br>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, tanδ shall be added 0.02 to the listed value with increase of every 1000μF. | |
| 耐久性<br>Endurance | 85℃中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 2000hrs at 85℃, the capacitors shall meet the following requirements.<br>静電容量変化率 Capacitance Change: 初期値の±25%以内 Within ±25% of the initial value.<br>損失角の正接 Dissipation Factor: 規格値の200%以下 Not more than 200% of the specified value.<br>漏れ電流 Leakage Current: 規格値以下 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) | 定格電圧(V) Rated Voltage: 6.3, 10, 16, 25, 35, 50, 63, 100, 160, 200, 250, 350, 400, 450<br>Z(−25℃)/Z(20℃): 4, 3, 2, 2, 2, 2, 2, 2, 3, 3, 3, 5, 5, 7<br>Z(−40℃)/Z(20℃): 8, 6, 4, 4, 3, 3, 3, 3, —, —, —, —, —, — (120Hz) | |

### ◆寸法図／DIMENSIONS

(mm)




| φD | 5 | 6.3 | 8 | 10 | 12.5 | 16 | 18 |
|---|---|---|---|---|---|---|---|
| φd | 0.5 | | 0.6 | | | 0.8 | |
| F | 2.0 | 2.5 | 3.5 | 5.0 | | 7.5 | |
| α | 100V以下 WV≦100:1.5<br>160V以上 WV≧160:2.0 | | | | | 2.0 | |

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

周波数係数　Frequency coefficient

| 周波数(Hz) Frequency | | 60(50) | 120 | 500 | 1k | 10k≦ |
|---|---|---|---|---|---|---|
| 係数 Coefficient | 0.1～1μF | 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 |
| | 2200～22000μF | 0.80 | 1.00 | 1.05 | 1.10 | 1.15 |

### ◆呼称方法／PART NUMBER

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

# 小形アルミニウム電解コンデンサ YK

## MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

### ◆標準品一覧表／STANDARD SIZE

Size φD×L(mm), Ripple Current (mA r.m.s./85℃, 120Hz)

| 定格電圧 WV(V.DC) / 定格静電容量 Cap(μF) | 6.3 (0J) | | 10 (1A) | | 16 (1C) | | 25 (1E) | | 35 (1V) | | 50 (1H) | | 63 (1J) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple |
| 0.1 | | | | | | | | | | | 5×11 | 1.1 | | |
| 0.15 | | | | | | | | | | | 5×11 | 1.5 | | |
| 0.22 | | | | | | | | | | | 5×11 | 2.5 | | |
| 0.33 | | | | | | | | | | | 5×11 | 4 | | |
| 0.47 | | | | | | | | | | | 5×11 | 7 | | |
| 1 | | | | | | | | | | | 5×11 | 13 | | |
| 2.2 | | | | | | | | | | | 5×11 | 23 | | |
| 3.3 | | | | | | | | | | | 5×11 | 35 | | |
| 4.7 | | | | | | | | | | | 5×11 | 41 | | |
| 10 | | | | | | | | | | | 5×11 | 60 | 5×11 | 70 |
| 22 | | | | | | | | | 5×11 | 90 | 5×11 | 95 | 5×11 | 110 |
| 33 | | | | | | | 5×11 | 98 | 5×11 | 110 | 5×11 | 130 | 6.3×11 | 140 |
| 47 | | | | | 5×11 | 115 | 5×11 | 120 | 5×11 | 135 | 6.3×11 | 160 | 6.3×11 | 190 |
| 100 | 5×11 | 135 | 5×11 | 140 | 5×11 | 175 | 5×11 | 185 | 6.3×11 | 215 | 8×11.5 | 270 | 8×11.5 | 290 |
| 220 | 5×11 | 220 | 5×11 | 230 | 6.3×11 | 280 | 6.3×11 | 310 | 8×11.5 | 370 | 10×12.5 | 435 | 10×16 | 490 |
| 330 | 6.3×11 | 280 | 6.3×11 | 310 | 8×11.5 | 380 | 8×11.5 | 410 | 10×12.5 | 500 | 10×16 | 590 | 10×20 | 680 |
| 470 | 6.3×11 | 360 | 6.3×11 | 400 | 8×11.5 | 460 | 10×12.5 | 550 | 10×16 | 680 | 10×20 | 760 | 12.5×20 | 880 |
| 1000 | 8×11.5 | 590 | 10×12.5 | 660 | 10×16 | 800 | 10×20 | 970 | 12.5×20 | 1180 | 12.5×25 | 1350 | 16×25 | 1350 |
| 2200 | 10×16 | 920 | 10×20 | 1090 | 12.5×20 | 1320 | 12.5×25 | 1570 | 16×25 | 1810 | 16×35.5 | 2110 | 18×35.5 | 2300 |
| 3300 | 10×20 | 1200 | 12.5×20 | 1440 | 12.5×25 | 1670 | 16×25 | 2000 | 16×35.5 | 2300 | 18×35.5 | 2540 | | |
| 4700 | 12.5×20 | 1550 | 12.5×25 | 1800 | 16×25 | 2120 | 16×31.5 | 2440 | 18×35.5 | 2740 | | | | |
| 6800 | 12.5×25 | 1920 | 16×25 | 2250 | 16×31.5 | 2540 | 18×35.5 | 2900 | | | | | | |
| 10000 | 16×25 | 2370 | 16×35.5 | 2710 | 18×35.5 | 2950 | | | | | | | | |
| 15000 | 16×35.5 | 2880 | 18×35.5 | 3110 | | | | | | | | | | |
| 22000 | 18×40 | 3350 | | | | | | | | | | | | |

| 定格電圧 WV(V.DC) / 定格静電容量 Cap(μF) | 100 (2A) | | 160 (2C) | | 200 (2D) | | 250 (2E) | | 350 (2V) | | 400 (2G) | | 450 (2W) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple |
| 0.47 | 5×11 | 8 | | | | | 6.3×11 | 8 | 6.3×11 | 8 | 6.3×11 | 8 | 8×11.5 | 8 |
| 1 | 5×11 | 16 | | | | | 6.3×11 | 16 | 6.3×11 | 16 | 6.3×11 | 16 | 8×11.5 | 16 |
| 2.2 | 5×11 | 35 | | | | | 6.3×11 | 30 | 8×11.5 | 31 | 10×12.5 | 31 | 10×12.5 | 29 |
| 3.3 | 5×11 | 45 | | | 6.3×11 | 36 | 8×11.5 | 45 | 10×12.5 | 45 | 10×12.5 | 43 | 10×16 | 40 |
| 4.7 | 5×11 | 50 | 6.3×11 | 45 | 8×11.5 | 51 | 8×11.5 | 54 | 10×12.5 | 56 | 10×16 | 56 | 10×20 | 56 |
| 10 | 5×11 | 75 | 8×11.5 | 83 | 10×12.5 | 85 | 10×16 | 90 | 10×20 | 100 | 12.5×20 | 90 | 12.5×20 | 84 |
| 22 | 6.3×11 | 135 | 10×16 | 133 | 10×20 | 135 | 12.5×20 | 150 | 12.5×25 | 185 | 12.5×25 | 180 | 16×25 | 140 |
| 33 | 8×11.5 | 185 | 10×20 | 180 | 12.5×20 | 205 | 12.5×20 | 205 | 16×25 | 230 | 16×25 | 230 | 16×31.5 | 180 |
| 47 | 10×12.5 | 235 | 12.5×20 | 230 | 12.5×20 | 230 | 12.5×25 | 260 | 16×31.5 | 280 | 16×31.5 | 280 | 16×35.5 | 220 |
| 100 | 10×20 | 380 | 12.5×25 | 385 | 16×25 | 400 | 16×31.5 | 450 | 18×40 | 420 | 18×40 | 420 | | |
| 220 | 12.5×25 | 629 | 16×35.5 | 645 | 18×35.5 | 680 | | | | | | | | |
| 330 | 12.5×25 | 760 | 18×35.5 | 760 | | | | | | | | | | |
| 470 | 16×25 | 950 | | | | | | | | | | | | |
| 1000 | 18×40 | 1350 | | | | | | | | | | | | |