

承认书编号 NO:SCAK1-1509000054

TO: 格能 台照

系列 SER.NO.: KF

承 認 書

APPROVAL SHEET

FOR AL. ELECTROLYTIC CAPACITORS

承 認
APPROVED BY:

| 料号 (customer) | 料号 (CapXon) | 规格 | | 加工形式 (mm) |
|------------------|----------------|-------------|--------|--------------|
| | | Description | D φ *L | |
| | KF152M016G200A | 1500μF/16V | 10X20 | |
| | KF222M016G200A | 2200μF/16V | 10X20 | |
| | KF100M050C110A | 10μF/50V | 5X11 | |
| | KF220M050C110A | 22μF/50V | 5X11 | |
| | | | | |
| | | | | |
| | | | | |

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校 對
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經 辦
DESIGNED BY:



CapXon

□
 丰宾电子工业股份有限公司
 CAPXON ELECTRONIC INDUSTRIAL CO., LTD
 新北市汐止區大同路二段 165 號 5 樓
 5F, 165, Ta-Tung Rd. Sec 2, Shi-Chih Dist.
 New Taipei City, Taiwan.
 TEL: +886-2-8692-6611
 FAX: +886-2-8692-6477

√
 丰宾电子(深圳)有限公司
 CAPXON ELECTRONIC (SHEN ZHEN) CO.,LTD.
 广东省深圳市宝安区公明镇塘尾村
 TANG WEI VILLAGE ,GONG MING COUNTY
 POA ANN HSIEN,SHEN ZHEN CITY,CHINA
 TEL:86-755-7177888
 FAX:86-755-7177802

CAPXON ELECTRONIC (SHEN ZHEN) CO., LTD

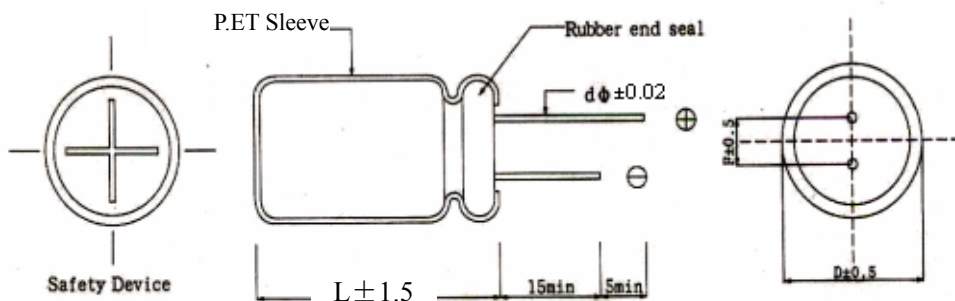
FOR APPROVAL

Aluminum Electrolytic Capacitors KF Type

1. Electric Characteristics

| CAPXON P/N | Cap. (μF) | Cap Tol. (%) | Rate W.V (VDC) | Surge Volt (VDC) | Max.D.F (%) | Ripple Current 100KHz/105 °C(mA) | Max.IM 100KHz (Ω) | Max. LC (μA) | Oper. Temp. (°C) | Case Size DΦ* L (mm) | USER P/N |
|----------------|-----------|--------------|----------------|------------------|-------------|----------------------------------|-------------------|--------------|------------------|----------------------|----------|
| KF152M016G200A | 1500 | ±20 | 16 | 18 | 14 | 1190 | 0.045 | 240 | -40~+105 | 10X20 | |
| KF222M016G200A | 2200 | ±20 | 16 | 18 | 16 | 1620 | 0.045 | 352 | -40~+105 | 10X20 | |
| KF100M050C110A | 10 | ±20 | 50 | 58 | 9 | 120 | 1.82 | 5 | -40~+105 | 5X11 | |
| KF220M050C110A | 22 | ±20 | 50 | 58 | 9 | 130 | 1.35 | 11 | -40~+105 | 5X11 | |

2. Diagram of Dimensions (Unit=mm)



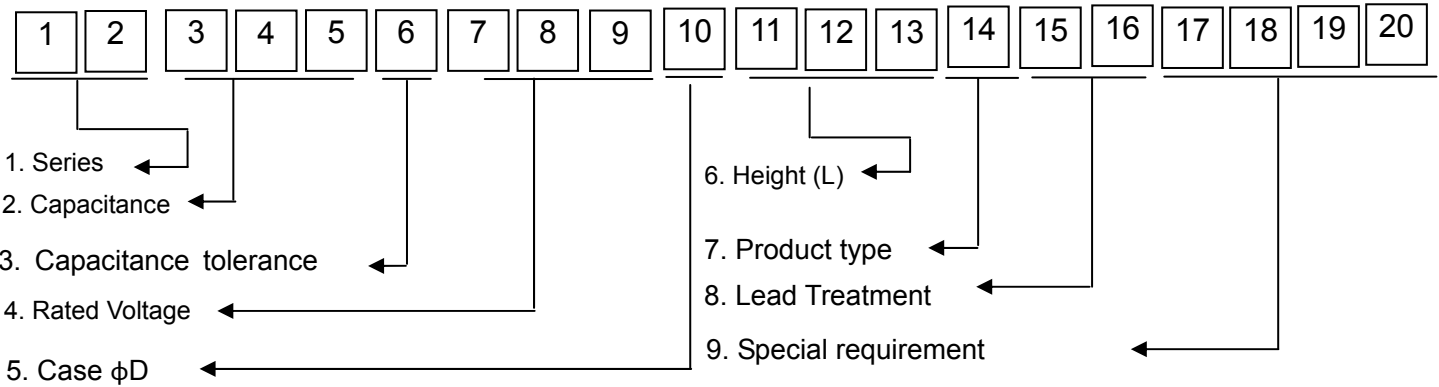
| | | |
|------------|-----|-----|
| D | 5 | 10 |
| L | 11 | 20 |
| F | 2.0 | 5.0 |
| d φ | 0.5 | 0.6 |

3. Remarks:

- 3.1 Leakage Current Test: $I \leq 0.01CV$ or $3(\mu A)$ for 6.3 to 100VDC After 2 minutes whichever is greater measured with rated working voltage applied.
 $I \leq 0.03CV(\mu A)$ for 160 to 450VDC. After 2 minutes with rated working voltage applied.
- 3.2 Operating temperature: 6.3~100VDC, 0.47~15000μF for -40°C ~+105°C
 160~450VDC, 0.47~470μF for -25°C ~+105°C
- 3.3 Cap and Dissipation factor (D.F) Test: At +20°C, 120Hz
- 3.4 Load Life Test: At +105°C for (5-6.3 φ) 2000Hrs, (8 φ) 3000Hrs, ($\geq 10 \phi$) 4000Hrs, (160V~450V: 2000Hrs).
- 3.5 Shelf Life Test: At +105°C, for 1000hrs.
- 3.6 Such spec. capacitors are just fit for this electric model, if you have some other application, please contact with us in advance.

Part Number System

When placing an order for Aluminum Electrolytic Capacitors, please observe the following Catalog Part Number format that describes.



(1). Series

The series name.

(2). Capacitance

Capacitance is shown in microfarad (μF)

| Capacitance (μF) | 0.1 | 0.47 | 1 | 4.7 | 10 | 100 | 1000 | 10000 |
|-------------------------------|-----|------|-----|-----|-----|-----|------|-------|
| Code | 0R1 | R47 | 010 | 4R7 | 100 | 101 | 102 | 103 |

(3). Capacitance tolerance

| Tolerance% | ± 5 | ± 10 | ± 20 | ± 30 | -10to+30 | -10to+50 | -10to+20 | -10to100 | 0to+20 | -30to+0 | ± 15 |
|------------|---------|----------|----------|----------|----------|----------|----------|----------|----------|---------|----------|
| Code | H | K | M | N | Q | T | V | W | Z | U | S |
| Tolerance% | 0to+30 | 0to+40 | 0to+50 | -5to+20 | -8to+5 | +5to+20 | 0to-20 | -15to+20 | -25to+20 | -50to+0 | -5to+30 |
| Code | Y | X | A | J | E | I | B | P | L | O | C |

For tolerance other than these and specified capacitance tolerance, please specify the value on the order sheet.

(4). Voltage (W.V)

| Voltage (W.V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 80 | 100 | 160 | 200 | 220 | 250 | 350 | 400 | 420 | 450 | 500 |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Code | 6R3 | 010 | 016 | 025 | 035 | 050 | 063 | 080 | 100 | 160 | 200 | 220 | 250 | 350 | 400 | 420 | 450 | 500 |

(5). Case (ϕD : mm)

| Diameter | 3 | 4 | 5 | 6.3 | 7.3 | 8 | 10 | 12 | 13 | 16 | 18 | 20 | 22 | 25 | 30 | 35 | 40 | 42 | 45 | 51 | 63.5 | 76.2 | 89 | 14.5 | 12.5 |
|----------|---|---|---|-----|-----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|----|------|------|
| Code | A | B | C | E | 7 | F | G | H | I | J | K | L | M | N | O | P | Q | U | V | R | S | T | X | Y | Z |

(6). Height (L: mm)

| Description | 5 | 5.5 | 7 | 7.7 | 8 | 11 | 11.5 | 12 | 12.5 | 14 | 16 | 20 | 21 | 25 | 25.5 | 31.5 | 35 | 35.5 | 41 | 47 | 52 | 83 | 98 | 118 | 141 | 151 |
|-------------|-----|-----|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|
| Code | 050 | 055 | 070 | 077 | 080 | 110 | 115 | 120 | 125 | 140 | 160 | 200 | 210 | 250 | 255 | 315 | 350 | 355 | 410 | 470 | 520 | 830 | 980 | A18 | A41 | A51 |

(7). Product type

| Type | Without Lead Treatment | With Lead Treatment |
|------|------------------------|---------------------|
| Code | A | E |

(8). Lead Treatment (Radial type)

| Description | Taping (Ammo Package) | Taping (Reel Package) | Lead Cutting | Lead Forming Cutting | Lead Forming only | Lead Crimping & Forming | Lead Cutting & Kink | Kink | Bending & Cutting | Forming & Kink |
|-------------|------------------------------|--------------------------|--------------|----------------------|-------------------|-------------------------|---------------------|------|-------------------|----------------|
| Code | TA, TB, TC, TD, TE, TF, ETC. | RA, RB, RC, RD, RE, Etc. | CA | CF | FA | KF | CK | KA | CR, CL | EF |

Remarks: The product of V- chip sticks a dish to process form is "TR".

(9) Special & appearance requirement (the 17th, 18th, 19th, 20th code)

| Code | Special | Code | Special | Code | request characteristic | Code | Special |
|------|----------------------|------|---------------------------------|------|---|------|-----------------|
| A | Terminals of Snap-in | H | Height requirement | R | Ripple current | U | Package & label |
| B | Rubber | I | L.C. | S | countermeasure | | |
| C | Lead wire | K | Vent line | T | Temperature characteristic | | |
| D | D.F. | L | Life | V | Vt, Electrolyte paper | | |
| E | Electrolyte | N | Nude | M | Solder, technics, form, Case with pillar, | | |
| F | Pitch | P | Sleeve, tray, print, PVC sleeve | Y | clip loop | | |
| G | Fill glue | Q | Capacitance, CV, Break | Z | Impedance & ESR | | |

Remarks:

1. If it's without lead treatment & special requirement, the 15th code is blank.
2. If it's with lead treatment & without require special requirement, the 17th, 18th, 19th, 20th code is blank.
3. If it's without lead treatment, but with special requirement, the 15th, 16th code filled with 0.
4. If it's without lead treatment, but with special requirement, also exceeds 4 kinds, keystone characteristic is 4 codes.
5. If it's with lead treatment, but with 1 special requirement, only remark 17th code, latter three codes is blank.
6. If it's with lead treatment, but with 1 special requirement, and it is different from former data, the 17th is 0, the 18th code is characteristic.

Information
1. Maximum ripple current

1.1 Maximum RMS ripple current at +105°C , 100KHz.

1.2 When capacitors are operated at temperatures other than +105°C, and frequency other than 100KHz, the maximum RMS ripple currents must be multiplied by the factors shown in below table.

Multiplier for Ripple Current vs. Frequency:

| CAP (uF) \ Frequency(Hz) | 50(60) | 120 | 400 | 1K | 10K | 50K-100K |
|--------------------------|--------|------|------|------|------|----------|
| CAP ≤ 10 | 0.47 | 0.59 | 0.76 | 0.85 | 0.97 | 1.0 |
| 10<CAP ≤ 100 | 0.52 | 0.62 | 0.80 | 0.89 | 0.97 | 1.0 |
| 100<CAP ≤ 1000 | 0.58 | 0.72 | 0.84 | 0.90 | 0.98 | 1.0 |
| 1000<CAP | 0.63 | 0.78 | 0.87 | 0.91 | 0.98 | 1.0 |

1.3 When frequency is different from specified condition shown as above, do not exceed the value obtained by multiplying the permissible maximum ripple current by the multiplier above. The ripple current verify methods according to JIS-C-5101-1(2010) No.: 4.23

☆ Note: 1) Ripple current corrected with working frequency

2) Check the generated heat of capacitor when ripple current is hard to measure in the circuit.

Promoted temperature by self-generating heat should be within 5°C.

2. Working Voltage (WV)

Make sure that no excess voltage (that is, higher than the rated voltage) is applied to capacitor. Please pay attention so that the peak voltage, which is DC voltage, overlapped by ripple current, will not exceed the rated voltage.

3. Insulating

General types of aluminum electrolytic capacitors are covered with a vinyl sleeve or the like. And this Sleeve is used for marking. When the internal element or the container is needed to be insulated, capacitors specially designed for insulation requirement are recommended to be used.

4. Soldering

4.1 When soldering a PC board with various components, too high soldering temperature or too long dipping time may cause secondary shrinking of the sleeve and then the container unnecessarily exposed.

The soldering must be done on the reverse of PC board.

4.2 Soldering may melt or break the sleeve when the sleeve is contacted with circuit boards. So the capacitors are recommended to be slightly apart from the circuit boards.

5. Vent

The capacitor ($\Phi \geq 10\text{mm}$) is provided with a safety vent on the bottom of the container. The vent would rupture in the event of the unsafe usage or misuse and relieve the internal higher pressure.

6. High Altitude

The capacitors can withstand those transportation conditions that temperature may range from -40°C to +105°C, and the altitude may reach 200,000 feet.

7. Cleaning agents:

If the capacitor is cleaned in halogenated agents for organic removing solder flux solvent, the agents may penetrate into the inside of capacitor, and may generate corrosion.

8. Environment-friendly policy

In the entire process of capacitor's production, including manufacture, packaging, storage and transportation, our company always comply with the related Environmental Protection Laws and Regulations of RoHS.

9. Mounting and Installation design according to EIAJ RCR-2367 standards.

1. Performance

Test environment:

| Methods | Temperature (°C) | Relative humidity (RH) | Atmospheric (Kpa) |
|---------|------------------|------------------------|-------------------|
| ① | 15~35 | 25~75% | 86~106 |
| ② | 25±10 | 40~60% | 86~106 |
| ③ | 20±1 | 63~67% | 86~106 |

Remark:

- ①: Normal testing & the test results without doubt.
- ②: Normal testing & the test results with doubt.
- ③: Testing it in standard laboratory & the test results still with judgement.

1-1. Leakage current (L.C.)

(Conditions)

Rated voltage shall be applied to capacitors in series with a resistor of $1000 \pm 10 \Omega$. Then leakage current shall be measured at the end of a specified period after the capacitors reached the rated voltage across the terminals.

(Criteria)

DC 6.3~100V : $I \leq 0.01CV$ or $3(\mu A)$ DC 160~450V : $I \leq 0.03CV(\mu A)$
 After 2 minute whichever is greater measured with rated working voltage applied.
 {I: Leakage Current (μA); C: Capacitance (μF); V: Rated voltage (V) }

1-2. Capacitance (Cap.)

(Conditions)

Measuring frequency : 120Hz±20%
 Measuring voltage : 0.5Vrms max. +1.5 to 2.0VDC
 Measuring circuit : Series equivalent circuit

(Criteria)

Shall not exceed the values specified in the table of Standard Ratings.

1-3. Dissipation factor(tanδ)

(Conditions)

Measuring frequency : 120Hz±20%
 Measuring voltage : 0.5Vrms max. +1.5 to 2.0VDC
 Measuring circuit : Series equivalent circuit

(Criteria)

| | | | | | | | | |
|-------------|-----|-----|-----|-----|-----|---------|----|-----|
| W.V.(V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 |
| D.F.(%)max. | 18 | 16 | 14 | 12 | 10 | 9 | 8 | 8 |
| W.V.(V) | 160 | 200 | 250 | 350 | 400 | 420~450 | | |
| D.F.(%)max. | 12 | 12 | 12 | 15 | 15 | 17 | | |

For capacitance value > 1000 μF , add 2% per another 1000 μF .

1-4. Terminal strength

(1) Pull strength

(Conditions)

The capacitor body shall be held. A force shall be gradually applied to the lead wire in the direction of the axis of the lead wire up to the specified pull force, and retained for 10 ± 1 seconds.

| Diameter of terminal (mm) | Pull force(N±10%) |
|---------------------------|-------------------|
| $0.35 < d \leq 0.5$ | 5(0.51Kg) |
| $0.5 < d \leq 0.8$ | 10(1.02Kg) |
| $0.8 < d \leq 1.25$ | 20(2.04Kg) |
| SNAP-IN type terminal | 40(4.08Kg) |

(Criteria)

The lead wire shall neither loosen nor break away.

(2) Lead bending strength

(Conditions)

The capacitor shall be held so that the normal axis of the lead wire can be in a vertical position.

A weight equivalent to the specified load shall be hung on the end of the lead wire.

The capacitor body shall be inclined through 90° and returned to its normal position within 2 to 3 seconds. The consecutive bend shall then be in the opposite direction in the same manner.

| Diameter of terminal (mm) | Pull force(N±10%) | Bends |
|---------------------------|-------------------|-------|
| 0.35 < d ≤ 0.5 | 2.5N(0.26 Kg) | 2 |
| 0.5 < d ≤ 0.8 | 5 N(0.51 Kg) | 2 |
| 0.8 < d ≤ 1.25 | 10N(1.02 Kg) | 2 |
| LUG type terminal | 20N(2.04Kg) | 2 |

SNAP-IN type terminals do not bending experiments, LUG terminal do bending test, bending angle of 45 degree centigrade.

(Criteria)

The lead wire shall neither loosen nor break away.

1-5.Soldering Heat Resistance Test

(Conditions)

| | |
|-----------------------------------|--|
| Type of solder | : Sn-3Ag-0.5Cu |
| Flux | : Ethanol solution(25 wt.% rosin) |
| Solder temperature/immersion time | : 260(0~+3)°C for 10±1 seconds |
| Solder iron temperature/time | : 400±10°C for 5 to 6 seconds,3 times |
| Depth of immersion | : Up to 1.5-2.0mm from the root of the lead wire covered with a thermal shield plate |
| Speed of immersion | : 25±2.5mm/sec. |

(Criteria)

| | |
|--------------------|---|
| Appearance | : No significant damage, legible marking, and no electrolyte leakage. |
| Capacitance change | : Within ±5% of initial value. |
| Tan δ | : Not more than the specified value |
| Leakage current | : Not more than the specified value |

1-6. Solderability Test

(Conditions)

| | |
|--------------------|--|
| Type of solder | : Sn-3Ag-0.5Cu |
| Flux | : Ethanol solution (25 wt.% rosin) |
| Solder temperature | : 245±5°C |
| Depth of immersion | : Up to 1.5-2.0mm from the root of the lead wire covered with a thermal shield plate |
| Dipping time | : 2±0.5 seconds |

(Criteria)

At least 95% of circumferential surface of the dipped portion of terminal shall be covered with new solder.

1-7. Temperature cycles

(Conditions)

Referring to JIS-C- 5101-1 (2010) No:1-10, the capacitor shall be subjected in turn to the procedures specified below:

| Step | Temperature | Time (min.) | Cycles |
|------|---|-------------|--|
| 1 | Rated low working temperature ($\pm 3^{\circ}\text{C}$) | 30 \pm 3 | 1 to 4 = 1 cycle, total 10 cycles. |
| 2 | 25 \pm 5 $^{\circ}\text{C}$ | 3 | |
| 3 | Rated high working temperature (105 \pm 2 $^{\circ}\text{C}$) | 30 \pm 3 | |
| 4 | 25 \pm 5 $^{\circ}\text{C}$ | 3 | |

Remark: If the highest working temp. over than 125 $^{\circ}\text{C}$, the using temp. tolerance is $\pm 5^{\circ}\text{C}$.

(Criteria)

| | |
|--------------------|--------------------------------------|
| Capacitance change | : Within $\pm 5\%$ of initial value. |
| Tan δ | : Not more than the specified value |
| Leakage current | : Not more than the specified value |
| Appearance | : No leakage and damaged. |

1-8. Vibration

(Conditions)

| | |
|--------------------------------------|--|
| Vibration frequency range | : 2 to 3000Hz |
| Amplitude or Acceleration | : 0.75 mm (Half amplitude) or 98m/s ² (Whichever is less severe) |
| The vibration amplitude of P-P value | : 0mm~25mm |
| Test frequency | : 10-55-10Hz (Approximately 1 minute) |
| Direction and duration of vibration | : 3 orthogonal directions mutually each for 2h.(Total 6hrs) |

(Criteria)

| | |
|--------------------|--------------------------------------|
| Capacitance change | : Within $\pm 5\%$ of initial value. |
| Tan δ | : Not more than the specified value |
| Leakage current | : Not more than the specified value |
| Appearance | : No leakage and damaged. |

1-9. Damp Heat Steady State Test

(Conditions)

| | |
|-------------------|---|
| Test temperature | : +40 \pm 2 $^{\circ}\text{C}$ |
| Relative humidity | : 90 to 95%RH |
| Test time | : 250 hours (Endurance time \leq 2000H) : 500 hours (Endurance time $>$ 2000H) |

After completion of test, the capacitors shall expose in the atmospheric condition for 16 hours, and then measurements shall be taken.

(Criteria)

| | |
|--------------------|---|
| Capacitance change | : Within $\pm 20\%$ of initial value. (Endurance time \leq 2000H) : Within $\pm 10\%$ of initial value. (Endurance time $>$ 2000H) |
| Tan δ | : Not more than 120% of the specified value |
| Leakage current | : Not more than the specified value |
| Appearance | : No leakage and damaged. |

1-10.Endurance

(Conditions)

Capacitors shall be placed in an oven with application of the rated D.C voltage.

Ambient temperature : 105±2℃
 Specified test time : (5-6.3φ)2000Hrs, (8φ)3000Hrs,
 (≥10φ)4000Hrs,(160V~450V:2000Hrs)

(Criteria)

Capacitance change : Within ±20% of initial value.
 Tan δ : Not more than 200% of the specified value
 Leakage current : Not more than the specified value
 Appearance : No leakage and damaged.

1-11.Surge voltage test

(Conditions)

Test temperature : +15 to +35℃
 Series protective resistor : 1000±10Ω
 Charge and discharge time : Charge period is 30s,
 followed by a discharge period of 5.5 min.
 Test cycle : 1000 cycles.
 Rated voltage ≤ 315V :Surge voltage shall be 1.15 times the rated voltage
 Rated voltage > 315V :Surge voltage shall be 1.1 times the rated voltage

(Criteria)

Capacitance change : Within ±15% of initial value.
 Tan δ : Not more than the specified value
 Leakage current : Not more than the specified value
 Appearance : No leakage and damaged.

1-12.Pressure relief vent

(Conditions)

Apply a reverse voltage with the DC current of 1 amp.(DC reverse voltage test)
 When the pressure relief vent operated, the capacitor shall not flame although emission of gas or a part of the inside element is allowable.
 If the vent does not operate with the voltage applied for 30 minutes, the test is considered to be passed.

(Criteria)

No sparking ; No shorting.
 No breaking out of electrolyte paper;
 Vent opening , no flowing down of electrolyte.

1-13.High Temperature Storage

(Conditions)

The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1000 hours at 105±2℃ without an applied voltage. Before the measurements, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4.

(Criteria)

| | |
|--------------------|---|
| Capacitance change | : Within $\pm 20\%$ of initial value. |
| Tan δ | : Not more than 200% of the specified value |
| Leakage current | : Not more than the specified value |
| Appearance | : No leakage and damaged. |

1-14.High and Low Temperature characteristics

(Conditions)

| Step | Temperature [°C] | Time |
|------|------------------|-----------------|
| 1 | +20 \pm 2 | / |
| 2 | -40(-25) \pm 3 | 2h |
| 3 | +20 \pm 2 | 15 \pm 2 min. |
| 4 | +105 \pm 2 | 2h |
| 5 | +20 \pm 2 | 15 \pm 2 min. |

(Criteria)

Step 2: Impedance ratio shall not exceed the values shown in Table attached.

[120Hz]

| | | | | | | | | |
|------------------|-----|-----|-----|-----|-----|-----|----|-----|
| Rated Voltage(V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 |
| Z-25°C/Z+20°C | 4 | 3 | 3 | 3 | 3 | 3 | 2 | 2 |
| Z-40°C/Z+20°C | 8 | 6 | 4 | 3 | 3 | 3 | 3 | 3 |
| Rated Voltage(V) | 160 | 200 | 250 | 350 | 400 | 450 | | |
| Z-25°C/Z+20°C | 2 | 2 | 3 | 5 | 5 | 6 | | |
| Z-40°C/Z+20°C | 3 | 6 | 6 | 6 | 6 | - | | |

For capacitance value > 1000 μ F: 1). add 0.5 per another 1000 μ F for -25°C/+20°C

2). add 1.0 per another 1000 μ F for -40°C/+20°C

| | |
|----------------------------|--|
| Step 4. Capacitance change | : Within $\pm 30\%$ of initial value. |
| Tan δ | : Not more than the specified value. |
| Leakage current | : Shall not more than 800% of initial specified value. |

2. Reference standard


KF series is applicable to general-purpose grade capacitors of JIS-C-5101-1(2010)

The othes test conditions shall comply with JIS-C-5101-4(2010).

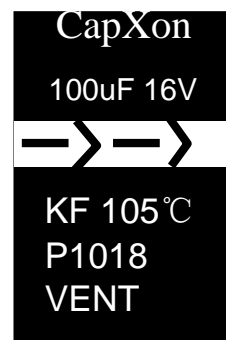
3. Marking

The following items shall be marked on each capacitor. All marking shall be legible and permanent.

(Example)

- (1) CapXon: Manufacturer: trademark
- (2) 16V: Rated voltage
- (3) 100 μ F: Nominal capacitance
- (4) : (-)Polarity (Cathode indicate)
- (5) 105°C: Maximum operating temperature.
- (6) KF: Series
- (7) P1018: Production date code
(P: PET Sleeve; 10: year 2010; 18: the 18 week)
- (8) VENT: Safety vent (\cong 6.3X11mm, 8X7mm have mark of vent)

Front side:



Back side:

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[6.3X11](#) [VTL100S10](#) [VTL470S10](#) [VTL470S16A](#) [511D336M250EK5D](#) [052687X](#) [ECE-A1CF471](#) [EKMA500ELL4R7ME07D](#) [NRE-](#)
[S560M16V6.3X7TBSTF](#) [RGA221M1CTA-0611G](#) [ERZA630VHN182UP54N](#) [UPL1A331MPH](#) [SK035M0100AZS-0611](#) [NEV1000M6.3DE](#)
[NEV100M16CB](#) [NEV100M50DD-BULK](#) [NEV2200M16FF](#) [NEV220M50EE](#) [NEV2.2M50AA](#)