

NO. : RD20210115004

TO: Ozdisan

APPROVAL SHEET No. : T-0621A

Series No.: MRS

Specification No.:

Rohs2.0

**APPROVAL SHEET
FOR AL. ELECTROLYTIC CAPACITORS**

| No. | (Customer No.) | (Koshin Part No.) | Description | ΦD x L |
|-----|----------------|----------------------|-------------|---------|
| 1 | | MRS-050V100ME054-T/R | 50V10μF | 6.3X5.4 |

APPROVED BY:

PLEASE SIGN RETURN US ONE COPY OF THE APPROVAL SHEET

DESIGNED BY: JIANGYANFEI CHECKED BY: JIANGYUANYUAN APPROVED BY:HUANGXUEHUI

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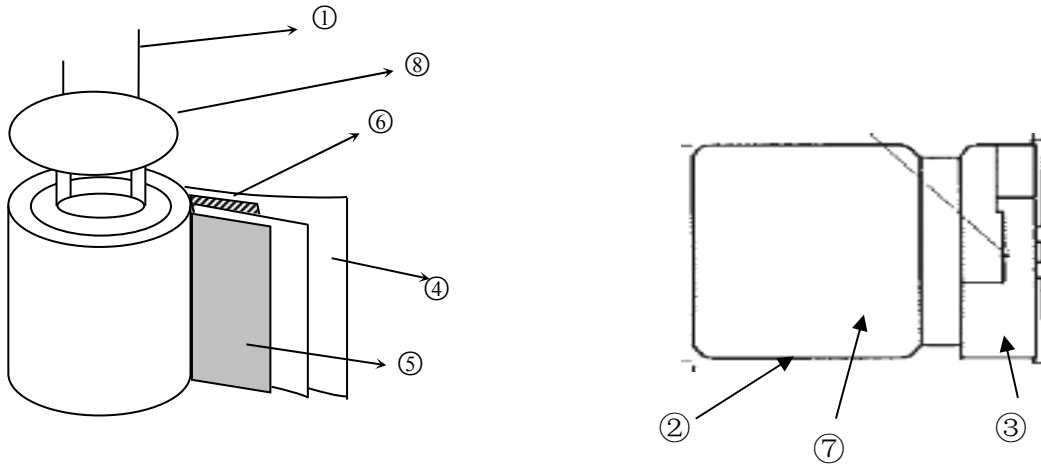
E-mail: koshin@koshin.com.hk

DATE: 2021-1-15

KOSHIN

DJS-DS-0013

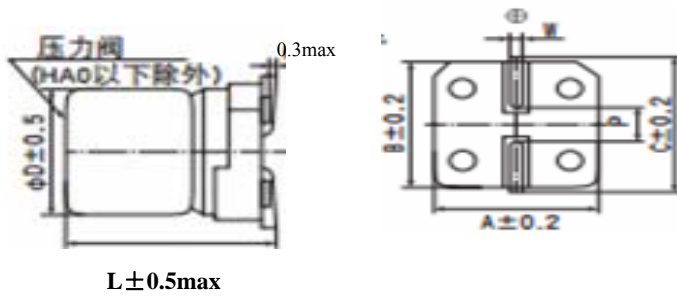
1. Inner conformation drawing and inner constitute parts (curtness drawing):



| No.: | Composing Part | Material |
|------|-----------------|---------------|
| ① | Lead Wire | Fe+Al+Cu+Sn |
| ② | Case | Aluminum |
| ③ | Base Plate | PPA |
| ④ | Paper | Cellulose |
| ⑤ | Anode Foil | Aluminum Foil |
| ⑥ | Cathode Foil | Aluminum Foil |
| ⑦ | Chemical liquid | GBL |
| ⑧ | Seal | Rubber |

KOSHIN

Standard Size map:



Lead spacing and Diameter

Unit: mm

| ΦD | L | A | B | C | W | P ± 0.2 |
|----------|-----|-----|-----|-----|---------|-------------|
| 6.3 | 5.4 | 6.6 | 6.6 | 7.2 | 0.5-0.8 | 1.9 |

Coefficient of Frequency for Ripple Current

| Capacitance(μF) \ Frequency (Hz) | 120 | 1K | 10K | 100K |
|---|------|------|------|------|
| | 1.0 | 1.00 | 1.50 | 1.75 |
| 2.2 to 10 | 1.00 | 1.30 | 1.40 | 1.50 |
| 22 to 1,500 | 1.00 | 1.05 | 1.08 | 1.08 |



Series MRS Capacitor

1. Our part No. :

For example :

| | | | | |
|-------------|---------------|-------------|------------|-----------------------|
| <u>MRS</u> | <u>050V</u> | <u>100</u> | <u>M</u> | <u>E054</u> |
| Series code | rated voltage | capacitance | tolerance | case size symbol |
| MRS | 50v | 10 μ F | $\pm 20\%$ | $\Phi 6.3 \times 5.4$ |

2 Marking:

Include company's brand series code, rated voltage, capacitance and polarity

3. Specifications:

3.1 Temperature range : -40 ~+85°C

3.2 Electrical characteristics

3.2.1 Capacitance tolerance : $\pm 20\%$

3.2.2 Tangent of loss angle ($\tan \delta$) : (At 20°C, 120Hz)

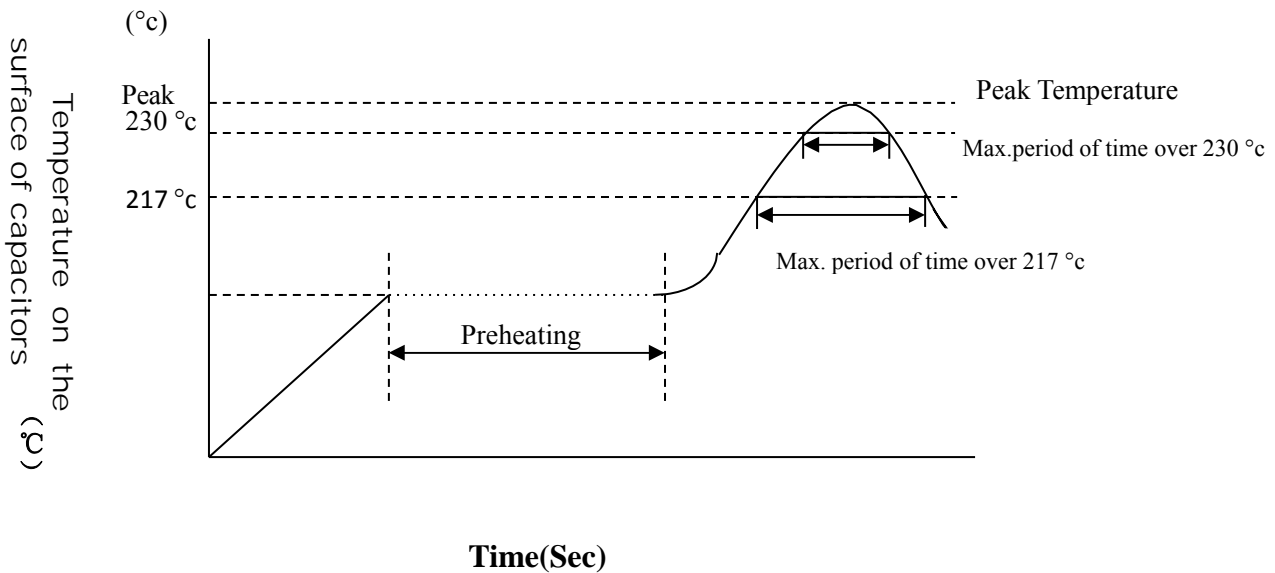
| Rated voltage (V) | | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160-250 | 400-450 |
|----------------------|-----------|------|------|------|------|------|------|------|------|------|---------|---------|
| $\tan \delta$ (max.) | B052-G100 | 0.42 | 0.26 | 0.30 | 0.26 | 0.16 | 0.14 | 0.12 | 0.12 | 0.12 | - | - |
| | H135-K215 | - | 0.38 | 0.34 | 0.30 | 0.26 | 0.22 | 0.18 | 0.14 | 0.10 | 0.20 | 0.25 |

3.2.3 Leakage current (μ A) :

| Rated voltage (VDC) | 4-100 | 160-450 |
|----------------------------|---|--|
| Leakage Current (μ A) | Less than 0.01CV or 3 μ A, whichever is large (at 20°C, 2 minutes) | — |
| | Less than 0.03CV or 4 μ A, whichever is large (at 20°C, 1 minutes) | 0.04CV +100 μ A (at 20°C, 1 minutes) |

Note: I : Leakage current (μ A) , C : Capacitance (μ F) , V : Rated DC working voltage (V)

RECOMMEDED SOLDERING CONDITIONS FOR ALUMINIUM SURFACE MOUNT TYPE -Air or Infrared reflow soldering



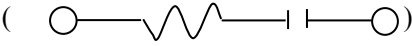
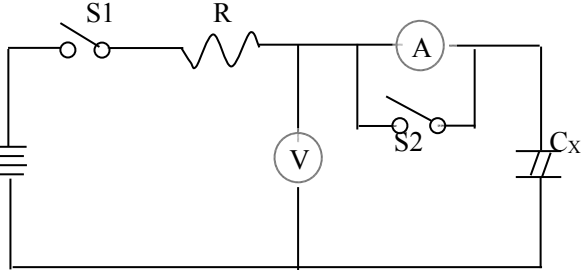
| SMDshape | size | voltage | preheating | Time maintained over 217 °c | Time maintained over 230 °c | Peak temperature | Reflow number |
|----------|-----------|---------------|----------------------|-----------------------------|-----------------------------|------------------|---------------|
| | B52~E87 | 4~63V | 150-180C ≤120Sec. | ≤90 Sec | ≤60 Sec | ≤260 °c | ≤2 times |
| | | 63V,80V | | ≤60 Sec | ≤40 Sec | ≤250 °c | ≤2 times |
| | F63~G100 | 4~50V | | ≤60 Sec | ≤30 Sec | ≤245 °c | ≤2 times |
| | | 63V~100, 400V | | ≤30 Sec | ≤20 Sec | ≤240 °c | ≤2 times |
| | H135~K215 | 6.3~50V | | ≤30 Sec | ≤20 Sec | ≤240 °c | ≤2 times |
| | | 63~450V | | ≤20 Sec | — | ≤230 °c | ≤2 times |

Remark: Reflow number cannot over 2 times. After first time reflow , must be ensure that the temperature of capacitors became cold to room temperature(5~35°C) ,then continue second flow.

1. Scope:

This specification applies to aluminium electrolytic capacitor ,used in electronic equipment.

2. Electrical characteristics:

| NO | ITEM | TEST METHOD | SPECIFICATION | | | | | | | | | | | | | | | | |
|------|---------------------------------------|--|--|------|-------------|--------------|---|--------------------------------------|-----------|---|---------------------------------------|--------|---|--------------------------------------|--------|---|--------------------------------------|--------|---|
| 2.1 | Rated voltage | | Voltage range , capacitance range ,see specification of this series | | | | | | | | | | | | | | | | |
| 2.2 | Capacitance | 1.Measuring frequency:120Hz \pm 12Hz 2.Measuring voltage: $\leq 0.5V_{rms}+0.5V_{DC} \sim 2.0V_{DC}$ 3.Measuring circuit:  | | | | | | | | | | | | | | | | | |
| 2.3 | Dissipation factor | | | | | | | | | | | | | | | | | | |
| 2.4 | Leakage current | DC leakage current shall be measured after 1~2minutes application of the DC rated working voltage through the 1000 Ω resistor at 20 $^{\circ}$ C  R: 1000 Ω 100 Ω S1:Switch A: DC current meter S2:Switch for protect of V: DC voltage meter current meter C _x : Testing capacitor | Dissipation factor, leakage current, see specification of this series. | | | | | | | | | | | | | | | | |
| 2.5 | Temperature characteristics | <table border="1" data-bbox="416 1391 922 1637"> <thead> <tr> <th data-bbox="422 1391 507 1485">STEP</th> <th data-bbox="512 1391 916 1485">TEMPERATURE</th> <th data-bbox="920 1391 1203 1485">STORAGE TIME</th> </tr> </thead> <tbody> <tr> <td data-bbox="422 1491 507 1525">1</td> <td data-bbox="512 1491 916 1525">20$^{\circ}$C\pm2$^{\circ}$C</td> <td data-bbox="920 1491 1203 1525">30minutes</td> </tr> <tr> <td data-bbox="422 1532 507 1565">2</td> <td data-bbox="512 1532 916 1565">-40$^{\circ}$C\pm3$^{\circ}$C</td> <td data-bbox="920 1532 1203 1565">2hours</td> </tr> <tr> <td data-bbox="422 1572 507 1606">3</td> <td data-bbox="512 1572 916 1606">20$^{\circ}$C\pm2$^{\circ}$C</td> <td data-bbox="920 1572 1203 1606">4hours</td> </tr> <tr> <td data-bbox="422 1612 507 1646">4</td> <td data-bbox="512 1612 916 1646">85$^{\circ}$C\pm2$^{\circ}$C</td> <td data-bbox="920 1612 1203 1646">2hours</td> </tr> </tbody> </table> <p data-bbox="416 1646 1209 1709">Step1.Measure the impedance. (Z ,20$^{\circ}$C 120Hz\pm2HZ)</p> <p data-bbox="416 1715 1209 1778">Step2. Measure the impedance at thermal balance after 2 hours. (Z , -40$^{\circ}$C 120Hz\pm2HZ)</p> <p data-bbox="416 1807 1209 1839">Step4.Measure the leakage current at thermal balance after 2 hours.</p> | | STEP | TEMPERATURE | STORAGE TIME | 1 | 20 $^{\circ}$ C \pm 2 $^{\circ}$ C | 30minutes | 2 | -40 $^{\circ}$ C \pm 3 $^{\circ}$ C | 2hours | 3 | 20 $^{\circ}$ C \pm 2 $^{\circ}$ C | 4hours | 4 | 85 $^{\circ}$ C \pm 2 $^{\circ}$ C | 2hours | Step2. Low temperature impedance stability Less than specified value. Step4. Capacitance change: within \pm 10% of the initial measured value. Dissipation factor: Less than specified value. |
| STEP | TEMPERATURE | STORAGE TIME | | | | | | | | | | | | | | | | | |
| 1 | 20 $^{\circ}$ C \pm 2 $^{\circ}$ C | 30minutes | | | | | | | | | | | | | | | | | |
| 2 | -40 $^{\circ}$ C \pm 3 $^{\circ}$ C | 2hours | | | | | | | | | | | | | | | | | |
| 3 | 20 $^{\circ}$ C \pm 2 $^{\circ}$ C | 4hours | | | | | | | | | | | | | | | | | |
| 4 | 85 $^{\circ}$ C \pm 2 $^{\circ}$ C | 2hours | | | | | | | | | | | | | | | | | |

| NO | ITEM | TEST METHOD | SPECIFICATION |
|-----|------------|---|---|
| 2.6 | Surge test | Rated surge voltage shall be applied (switch on) for 30 ± 5 second and then shall be applied (switch off) with discharge for 5.5min at room temperature. This cycle shall be repeated for 1000 cycles. Duration of one cycle is 6 ± 0.5 minutes | <p>Capacitance change: within $\pm 15\%$ of the initial specified value.</p> <p>Dissipation factor: Less than specified value.</p> <p>Leakage current: Within initial specified value.</p> |

3. Mechanical characteristics

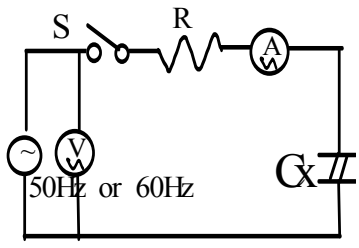
| NO | ITEM | TEST METHOD | SPECIFICATION | | | | | | | | | | | | | | | | |
|----------|---------------|---|---------------------|------------|--------------------|---------------------|----------|-----|-----|-----|-------|------------|--------------------|---------------------|----------|-----|-----|-----|--|
| 3.1 | Lead strength | <p>(A) Tensile strength: wire lead terminal:</p> <table border="1" style="margin-left: 20px; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px;">d(mm)</td> <td style="padding: 2px;">≤ 0.5</td> <td style="padding: 2px;">$0.5 < d \leq 0.8$</td> <td style="padding: 2px;">$0.8 < d \leq 1.25$</td> </tr> <tr> <td style="padding: 2px;">load(kg)</td> <td style="padding: 2px;">0.5</td> <td style="padding: 2px;">1.0</td> <td style="padding: 2px;">2.0</td> </tr> </table> <p>The capacitor shall withstand the constant tensile force specified between the body and each lead for 10 seconds without damage either mechanical or electrical.</p> <p>(B) Bending strength: wire lead terminal:</p> <table border="1" style="margin-left: 20px; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px;">d(mm)</td> <td style="padding: 2px;">≤ 0.5</td> <td style="padding: 2px;">$0.5 < d \leq 0.8$</td> <td style="padding: 2px;">$0.8 < d \leq 1.25$</td> </tr> <tr> <td style="padding: 2px;">load(kg)</td> <td style="padding: 2px;">0.5</td> <td style="padding: 2px;">0.5</td> <td style="padding: 2px;">1.0</td> </tr> </table> <p>with the capacitor in a vertical position apply the load specified axially to each lead. The capacitor shall be rotated slowly from the vertical to the horizontal position, back to the vertical position. The 90° in the opposite direction and back the original position. Performance of capacitor shall not have change and leads shall be undamaged.</p> | d(mm) | ≤ 0.5 | $0.5 < d \leq 0.8$ | $0.8 < d \leq 1.25$ | load(kg) | 0.5 | 1.0 | 2.0 | d(mm) | ≤ 0.5 | $0.5 < d \leq 0.8$ | $0.8 < d \leq 1.25$ | load(kg) | 0.5 | 0.5 | 1.0 | <p>When the capacitance is measured, there shall be no intermittent contacts, or open-or short-circuiting.</p> <p>There shall be no such mechanical damage as terminal damage etc.</p> |
| d(mm) | ≤ 0.5 | $0.5 < d \leq 0.8$ | $0.8 < d \leq 1.25$ | | | | | | | | | | | | | | | | |
| load(kg) | 0.5 | 1.0 | 2.0 | | | | | | | | | | | | | | | | |
| d(mm) | ≤ 0.5 | $0.5 < d \leq 0.8$ | $0.8 < d \leq 1.25$ | | | | | | | | | | | | | | | | |
| load(kg) | 0.5 | 0.5 | 1.0 | | | | | | | | | | | | | | | | |

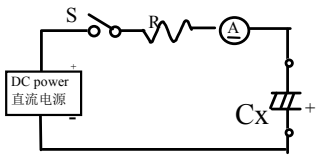
| NO. | ITEM | TEST METHOD | SPECIFICATION |
|-----|----------------------|---|---|
| 3.2 | Vibration resistance | The frequency of the vibration shall vary uniformly within the range 10 to 55 Hz with the amplitude of 0.75 mm, completing the cycle in the interval of one minute. The capacitor shall be securely mounted by its leads with hold the body of capacitor. The capacitor shall be vibrated in three mutually perpendicular directions for a period of 2 hours in each direction. | Capacitance : no unsteady. Appearance : no abnormal. Capacitance change: within $\pm 5\%$ of initial measured value. |
| 3.3 | Solder ability | The leads are dipped in the solder bath of Sn at $245^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 2 ± 0.5 seconds. The dipping depth should be set at 1.5~2.0 mm. | The solder alloy shall cover the 95% or more of dipped lead's area. |

4. Reliability

:

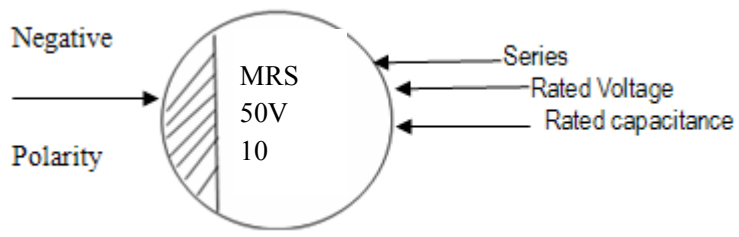
| NO. | ITEM | TEST METHOD | SPECIFICATION |
|-----|---------------------------|--|--|
| 4.1 | Soldering heat resistance | The leads immerse in the solder bath of Sn at $260^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 10 ± 1 seconds until a distance of 1.5~2.0 mm from the case. | No visible damage or leakage of electrolyte. Capacitance change: Within $\pm 5\%$ of the initial measured value Tan δ : Less than specified value. Leakage current: Less than specified value |
| 4.2 | Damp head (steady state) | Subject the capacitor to $40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and 90% to 95% relative humidity for 504 hours. | Capacitance change: Within $\pm 20\%$ of the initial measured value Tan δ : Less than 1.2 specified value. Leakage current: Less than specified value Impedance: Less than 1.2 specified value. |

| NO. | ITEM | TEST METHOD | SPECIFICATION | | | | | | | | | | | | | | |
|---|----------------------------|---|--|-----------------|--------------------|--------|---------------------------------------|-------|---|------|---|-----|---|-------|------------------------|---|---|
| 4.3 | Load life | The following specifications shall be satisfied when the capacitors are restores to 20°C after the rated voltage is applied for 2,000 hours at 85°C. | <p>Capacitance change(4-6.3V): Within±30% of the initial specified value.</p> <p>Capacitance change(10-100V): Within±25% of the initial specified value.</p> <p>Capacitance change(160-450V): Within±20% of the initial specified value.</p> | | | | | | | | | | | | | | |
| 4.4 | Shelf life | The following specifications shall be satisfied when the capacitors are restores to 20°C after exposing them for 1,000 hours at 85°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum for 30 minutes, at least 24 hours and not more than 48 hours before the measurements | <p>Dissipation factor(4-100V): Less than 300% of the initial specified value.</p> <p>Dissipation factor(160-450V): Less than 200% of the initial specified value.</p> <p>Leakage current: The initial specified value or less.</p> | | | | | | | | | | | | | | |
| 4.5 | Storage at low temperature | The capacitor shall be stored at temperature of -40°C ± 3°C for 16 hours, during which time be subjected to standard atmospheric conditions for 16 hours or more. After which measurements shall be made. | <p>Capacitance change: Within ± 10% of the initial value.</p> <p>Tan δ :less than specified value</p> <p>Leakage current: Less than specified value.</p> <p>Appearance: no Abnormal.</p> | | | | | | | | | | | | | | |
| 4.6 | Pressure relief | <p>AC test: Applied voltage: AC voltage not exceeding 0.7 times of the rated direct voltage or 250V AC whichever is the lower.</p> <p>Frequency: 50Hz or 60Hz. Series resistor :refer to the table below</p> <table border="1" data-bbox="363 1646 983 2011"> <thead> <tr> <th>Capacitance(C)</th> <th>Series resistor</th> </tr> </thead> <tbody> <tr> <td>$C < 1\mu\text{F}$</td> <td>1000 Ω</td> </tr> <tr> <td>$1\mu\text{F} < C \leq 10\mu\text{F}$</td> <td>100 Ω</td> </tr> <tr> <td>$10\mu\text{F} < C \leq 100\mu\text{F}$</td> <td>10 Ω</td> </tr> <tr> <td>$100\mu\text{F} < C \leq 1000\mu\text{F}$</td> <td>1 Ω</td> </tr> <tr> <td>$1000\mu\text{F} < C \leq 10000\mu\text{F}$</td> <td>0.1 Ω</td> </tr> <tr> <td>$10000\mu\text{F} < C$</td> <td>*</td> </tr> </tbody> </table> <p>* Resistance is equivalent to half impedance by test frequency.</p> | Capacitance(C) | Series resistor | $C < 1\mu\text{F}$ | 1000 Ω | $1\mu\text{F} < C \leq 10\mu\text{F}$ | 100 Ω | $10\mu\text{F} < C \leq 100\mu\text{F}$ | 10 Ω | $100\mu\text{F} < C \leq 1000\mu\text{F}$ | 1 Ω | $1000\mu\text{F} < C \leq 10000\mu\text{F}$ | 0.1 Ω | $10000\mu\text{F} < C$ | * | <p>AC test circuit</p>  <p> ⊖ : AC power S : Switch ⊕ : AC voltage meter ⊗ : AC current meter R : protection resistor CX : testing capacitor </p> |
| Capacitance(C) | Series resistor | | | | | | | | | | | | | | | | |
| $C < 1\mu\text{F}$ | 1000 Ω | | | | | | | | | | | | | | | | |
| $1\mu\text{F} < C \leq 10\mu\text{F}$ | 100 Ω | | | | | | | | | | | | | | | | |
| $10\mu\text{F} < C \leq 100\mu\text{F}$ | 10 Ω | | | | | | | | | | | | | | | | |
| $100\mu\text{F} < C \leq 1000\mu\text{F}$ | 1 Ω | | | | | | | | | | | | | | | | |
| $1000\mu\text{F} < C \leq 10000\mu\text{F}$ | 0.1 Ω | | | | | | | | | | | | | | | | |
| $10000\mu\text{F} < C$ | * | | | | | | | | | | | | | | | | |

| NO. | ITEM | TEST METHOD | SPECIFICATION |
|-----|-----------------|---|---|
| 4.6 | Pressure relief | <p>DC test: Send the following electricity while applying the inverse voltage.</p> <p>Where case size: $D \leq 22.4\text{mm}$: 1 A d.c.max $D > 22.4\text{mm}$: 10 A d.c.max</p> <p>Note: 1.This requirement applies to capacitors with a diameter of 8 mm or more. 2. When the pressure relief device does not open even 30 minutes after commencement of test, the test may be ended.</p> | <p>DC test circuit</p>  <p>S : Switch A : DC current meter Cx: testing capacitor</p> <p>The pressure relief device shall open in such a way as to avoid any damage of fire or explosion of capacitor elements (terminal and metal foil etc.) or cover.</p> |
| 4.7 | Temp cycle | <p>LSL temperature(°C): -40 ± 3 time(H): 0.5H/timeX5 times USL temperature(°C): 85 ± 2 time(H): 0.5H/timeX5 times Judgement: CAP: $\Delta C/C \leq \pm 10\%$, Appearance no Abnormal. No electrolyte leakage.</p> | |
| 4.8 | Thermal shock | <p>dry heat temperature (°C): 85 ± 2 time(H): 16 moist heat temperature(°C): 55 time(H): 24/ cold temperature(°C): -40 ± 2 time(H): 2/ moist heat temperature(°C): 55 time(H): 24 : Judgement: CAP, $\Delta C/C \leq \pm 10\%$, Tan δ :Less than 1.2 specified value, Leakage current: Less than specified value. Appearance no Abnormal. No electrolyte leakage.</p> | |

5. Marking For example:

5.1. Marking on capacitors includes:



- 1>. Series
- 2>. Rated voltage
- 3>. Rated capacitance (u F)
- 4>. Polarity

5.2. Marking color: Blue

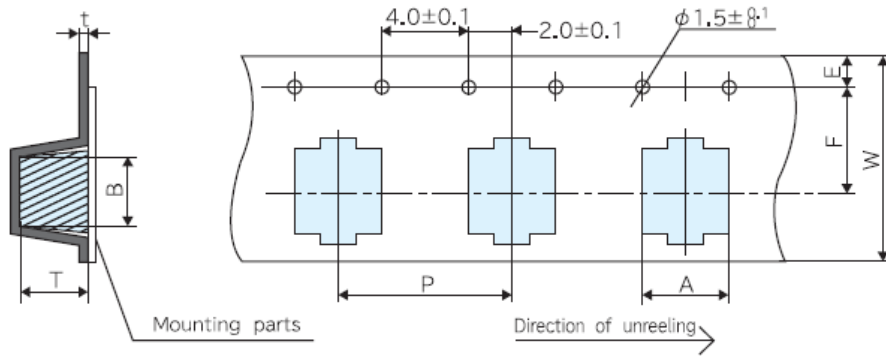
5.3. Case color: Silver

Detergent needing attention

Hydrogen carbide liquid and halogen liquid can cause Aluminium Electrolytic Capacitor to corrode. Some of Safe and Unsafe detergent are as follows

| Safe | Unsafe |
|-----------------|--|
| Dimethylbenzene | 1,1,2-trichloroethane |
| Ethanol | 1,2,2- trichloroethane |
| Butanol | Tetrachloroethylene |
| Methanol | Chloroform(colorless volatilizable liquid) |
| Propanol | Dichloromethane |
| Detergent | Trichloroethylene |

Carrier Pack Taping Specification:



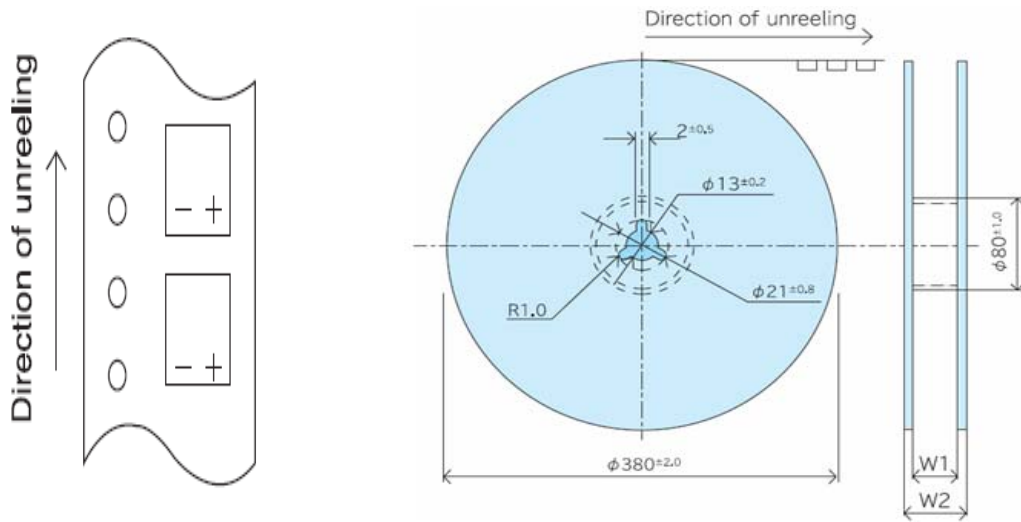
Product size table

Unit: mm

| Dimension Size Code | A | B | W | F | E | P | t | T |
|------------------------|---------|---------|----|-----|----------|----|--------|---------|
| φ 6.3X5.4 | 7.0±0.2 | 7.0±0.2 | 16 | 7.5 | 1.75±0.1 | 12 | 0.6max | 5.7±0.2 |

Polarity:

Package for SMD Type:



| Size Code | W1(mm) | W2(mm) | Qty(pcs/reel) |
|-----------|--------|----------|---------------|
| φ 6.3 | 18±0.5 | 22.5±1.0 | 1000 |

| Surface Mount Aluminum Electrolytic Capacitor Specification | | | | | | | | | | | | | | | | | | | |
|---|--|--------------------------|--|--------------------------|---------|-------------|----------|---|---|---|---|---|-------------|-----|-----|-----|-----|-----|---------|
| Series | MRS | 50 V 10 μ F | Part No. | MRS-050V100ME054-T/R | | | | | | | | | | | | | | | |
| Customer No. | / | | Case size | Φ D 6.3X L5.4 | | | | | | | | | | | | | | | |
| Specification | Items | | Standard | | | | | | | | | | | | | | | | |
| | Operating temperature range | | - 40 ~ + 85 $^{\circ}$ C | | | | | | | | | | | | | | | | |
| | Capacitance tolerance | | \pm 20% (20 $^{\circ}$ C , 120Hz) | | | | | | | | | | | | | | | | |
| | Dissipation factor (MAX) | | (Less than) 12% (20 $^{\circ}$ C , 120Hz) | | | | | | | | | | | | | | | | |
| | Leakage current (MAX) | | (Less than) 5 μ A (20 $^{\circ}$ C 50 V 2 min) | | | | | | | | | | | | | | | | |
| | E S R (MAX) | | / | | | | | | | | | | | | | | | | |
| | Ripple current (MAX) | | 32 mArms (120Hz , 85 $^{\circ}$ C) | | | | | | | | | | | | | | | | |
| | Load life | | 2000 hrs | | | | | | | | | | | | | | | | |
| Outline | Marking color | | Blue | | | | | | | | | | | | | | | | |
| | (Dimensions) | | | | | | | | | | | | | | | | | | |
| | <p style="text-align: right;">Unit:mm</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>ΦD</th> <th>L</th> <th>A</th> <th>B</th> <th>C</th> <th>W</th> <th>P\pm0.2</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">6.3</td> <td style="text-align: center;">5.4</td> <td style="text-align: center;">6.6</td> <td style="text-align: center;">6.6</td> <td style="text-align: center;">7.2</td> <td style="text-align: center;">0.5~0.8</td> <td style="text-align: center;">1.9</td> </tr> </tbody> </table> | | | | | | Φ D | L | A | B | C | W | P \pm 0.2 | 6.3 | 5.4 | 6.6 | 6.6 | 7.2 | 0.5~0.8 |
| Φ D | L | A | B | C | W | P \pm 0.2 | | | | | | | | | | | | | |
| 6.3 | 5.4 | 6.6 | 6.6 | 7.2 | 0.5~0.8 | 1.9 | | | | | | | | | | | | | |
| Recorder | (The first edition) :2021-1-15 | | | | | | | | | | | | | | | | | | |
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