



# 东莞市威庆电子有限公司

DONGGUAN WEIQING ELECTRONIC CO., LTD

SPEC NO.:2019100802

REV:B

## 承 认 书

SPECIFICATION

客户名称(CUSTOMER) : 深圳立创电子商务有限公司

产品名称(PRODUUCT NAME) : 安规电容 (MPX X2) LOGO: WQC

承认规格(APPROVE ITEM) : 224K/310V P=10MM L=15MM C3 盒

威庆料号(WEIQING PART NO.) : C50Q3224KC3L150A10

样品印字(SAMPLE PRINT) : WQC 品牌

### 威 庆 确 认 表

WEIQING CONFIRM LIST

| APPROVED                                                                                    | CHECKED | PREPARED |
|---------------------------------------------------------------------------------------------|---------|----------|
| <br>BASE | 陶贵能     | 何湘华      |

### 客 户 承 认 结 果

CUSTOMER ACKNOWLEDGE THE RESULT

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1. Scope:

This specification applied to capacitor for type MPX(BOX-TYPE Metallized Polypropylene Film Interference Suppression Capacitor)

2. Operation Temperature:

-40℃ ~ +110℃

3. Capacitance Range:

0.001uF ~ 3.3uF

4. Capacitance Tolerance:

±5%(J)、±10%(K)、±20%(M)

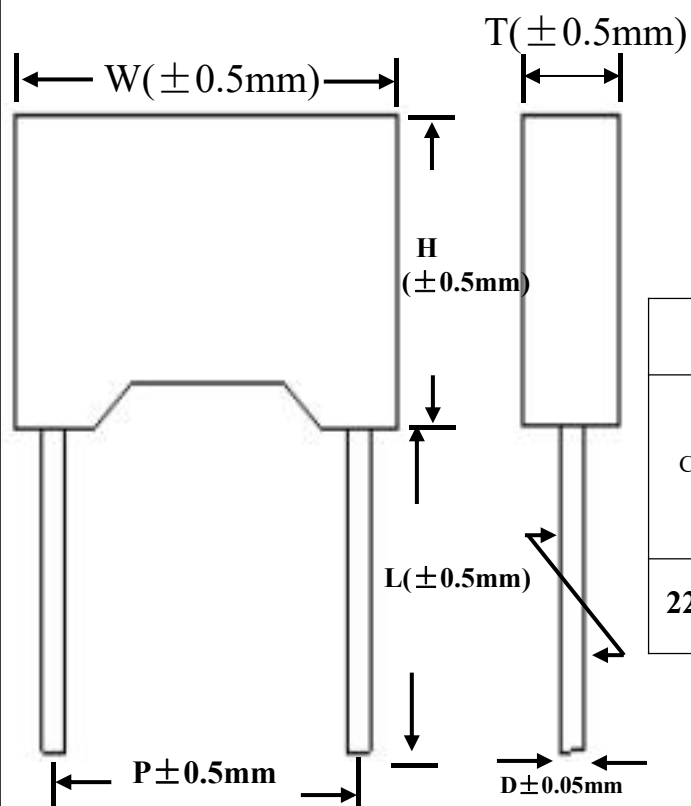
5. Rated Voltage:

275VAC / 300VAC / 310VAC (50~60 Hz)

6. Approvals File No

| Related Standard |                                            | Certificate No                                                       | Approved Monogram                                                                                   |
|------------------|--------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| UL               | IEC/EN 60384-14                            | E466405                                                              |  (USA)         |
| ENEC             | IEC/EN 60384-14                            | 40040406                                                             |  (EU)          |
| VDE              | IEC/EN 60384-14                            | 40040406                                                             |  (Germany)     |
| CQC              | GB/T6346.14-2015                           | CQC18001189336                                                       |  (China)       |
| KTL              | KC60348-14(2015-09)<br>KC60384-1 (2015-09) | SU03073-14001B<br>SU03073-14002B<br>SU03073-14003B<br>SU03073-16001A |  (South Korea) |

## 7. Dimensions:



CAPACITOR BODY SIZE (Unit:mm)

| CAP  | RV   | BOX TYPE | W<br>±<br>0.5 | H<br>±<br>0.5 | T<br>±<br>0.5 | D<br>±<br>0.05 | L<br>±<br>0.5 | P<br>±<br>0.5 |
|------|------|----------|---------------|---------------|---------------|----------------|---------------|---------------|
| 224K | 310V | C3       | 13            | 12            | 6             | 0.6            | 15            | 10            |

## Lead Style

| L    | H    | K          | N                                                                                           | M                                              | T                              | S                   |
|------|------|------------|---------------------------------------------------------------------------------------------|------------------------------------------------|--------------------------------|---------------------|
|      |      |            |                                                                                             |                                                | TAPING<br>(refer to next page) | Customer<br>Require |
| CAP  | RV   | Lead Style | L model-A<br>section $\pm 0.5\text{mm}$<br>H.K.N.M<br>model-A section<br>$\pm 0.5\text{mm}$ | K.N.M<br>model-B section<br>$\pm 0.5\text{mm}$ | $P(\pm 0.5\text{mm})$          |                     |
| 224K | 310V | L          | 15MM                                                                                        |                                                | 10MM                           |                     |

### 8. Specifications ( IEC60384-14)

| No  | Test items                                   | Performance                                                                                            | Test Method                                                                                                                                           |
|-----|----------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8-1 | Withstand voltage<br>(Between Terminals)     | Shall be no abnormality                                                                                | 1200VDC Test Of 1~5sec.                                                                                                                               |
|     | Between terminal and<br>Enclosure            | Shall be no abnormality                                                                                | UR×200%+1500VAC, 60sec.                                                                                                                               |
| 8-2 | Insulation resistance<br>(Between Terminals) | $C_R \leq 0.33\mu F$ $IR \geq 15,000M\Omega$<br>$C_R > 0.33\mu F$ $IR \geq 5,000M\Omega \div C(\mu F)$ | Measured at $100 \pm 15VDC$ ,<br>For 60sec / $25^\circ C$                                                                                             |
| 8-3 | Capacitance                                  | Within the tolerance specified                                                                         | 1KHz, 1Vrms Max. at $25^\circ C$                                                                                                                      |
| 8-4 | Dissipation Factor                           | 0.001 (0.1%) Max.                                                                                      | 1KHz, 1Vrms Max. at $25^\circ C$                                                                                                                      |
| 8-5 | Tense Strength of<br>Terminal                | No wire breakage and No Damage of<br>Capacitor                                                         | 1. Load Force : 1.0 Kg<br>2. Holding Time : $10 \pm 1$ sec                                                                                            |
| 8-6 | Bending Strength of<br>Terminal              | No wire breakage and No Damage of<br>Capacitor                                                         | 1. Load Force : 0.5 Kg<br>2. Bending Time : 4 x $90^\circ$ in 5sec                                                                                    |
| 8-7 | Vibration                                    | (1) Appearance : No Visible Damage<br>(2) Contact : Normal                                             | a. Frequency change :<br>1min. per cycle 10~55~10Hz<br>b. Vibration distance : 1.5mm<br>c. course: X、Y、Z (axis)<br>d. Time : 2h / axis ( 6h in total) |
| 8-8 | Solder-ability                               | 95% Of The Surface Tinning                                                                             | a. Solder temperature: $270 \pm 5^\circ C$<br>b. Solder time: $2 \pm 0.5$ sec                                                                         |

|      |                                         |                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                  |
|------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8-9  | Heat Shock test                         | (1) Appearance : No Visible Damage<br>(2) Withstand Voltage : Normal<br>(3) Capacitance Change : $\leq \pm 3\%$ of The Initial Value                                                                                                          | The terminal of capacitor shall be immersed in the melting solder.<br>a. Solder temperature: $270 \pm 5^{\circ}\text{C}$<br>b. Solder time: $3 \pm 0.5\text{sec}$                                                                |
| 8-10 | Cold Resistance                         | (1) Appearance : No Visible Damage<br>(2) Capacitance Change : $\leq 0 \sim -10\%$ of The Initial Value                                                                                                                                       | a. Test Temperature: $-40^{\circ}\text{C}$<br>b. Test Times: 2Hrs                                                                                                                                                                |
| 8-11 | Dry Heat Resistance                     | (1) Appearance : No Visible Damage<br>(2) Withstand Voltage : Normal<br>(3) Capacitance Change : $\leq +5 \sim -2\%$ Of The Initial Value<br>(4) Insulation Resistance:<br>$\geq 50\%$ of the rated value                                     | a. TEST TEMPERATURE:<br>$110^{\circ}\text{C} \pm 2^{\circ}\text{C}$<br>b. Test Times: 2Hrs                                                                                                                                       |
| 8-12 | Humidity Resistance                     | (1) Appearance : No Visible Damage<br>(2) Withstand Voltage : Normal<br>(3) Capacitance Change : $\leq \pm 1\%$ of The Initial Value<br>(4) Insulation Resistance:<br>$\geq 50\%$ of the rated value<br>(5) DF ( $\tan \delta$ ) $\leq 0.001$ | a. TEST TEMPERATURE:<br>$40^{\circ}\text{C} \pm 2^{\circ}\text{C}$<br>b. RELATIVE HUMIDITY:<br>$90 \sim 95\%$<br>c. Test Times:<br>$500 \pm 24 \text{ HRS}$                                                                      |
| 8-13 | Heat Resistance<br>(Charge & Discharge) | (1) Appearance : No Visible Damage<br>(2) DF ( $\tan \delta$ ) $\leq 0.001$<br>(3) Capacitance Change : $\pm 10\%$ of The Initial Value<br>(4) Insulation Resistance:<br>$\geq 50\%$ of the rated value                                       | a. Test Voltage :<br>Rated Voltage Charge for 2 sec.<br>Discharge for 2 sec. Repeated<br>For $1000 \pm 100$ cycles<br>b. Test Temperature: $110^{\circ}\text{C} \pm 2^{\circ}\text{C}$                                           |
| 8-14 | Heat Resistance<br>( Continuous)        | (1) Appearance : No Visible Damage<br>(2) DF ( $\tan \delta$ ) $\leq 0.002$<br>(3) Capacitance Change : $\pm 10\%$ of The Initial Value<br>(4) Insulation Resistance:<br>$\geq 50\%$ of the rated value                                       | a. Test Voltage :<br>$125\%$ of The Rated Voltage for<br>$1000\text{Vrms}$ for 0.1s every one<br>hour during tset.<br>b. Test Temperature: $110^{\circ}\text{C} \pm 2^{\circ}\text{C}$<br>c. Test Times: $1008 \pm 24\text{Hrs}$ |