



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): 104K/310V P=15MM L=23MM D1 盒

威庆料号(WEIQING PART NO.): C50Q3104KD1L230C40

样品印字(SAMPLE PRINT): WQC 品牌

威庆确认表

WEIQING CONFIRM LIST

APPROVED	CHECKED	PREPARED
 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)

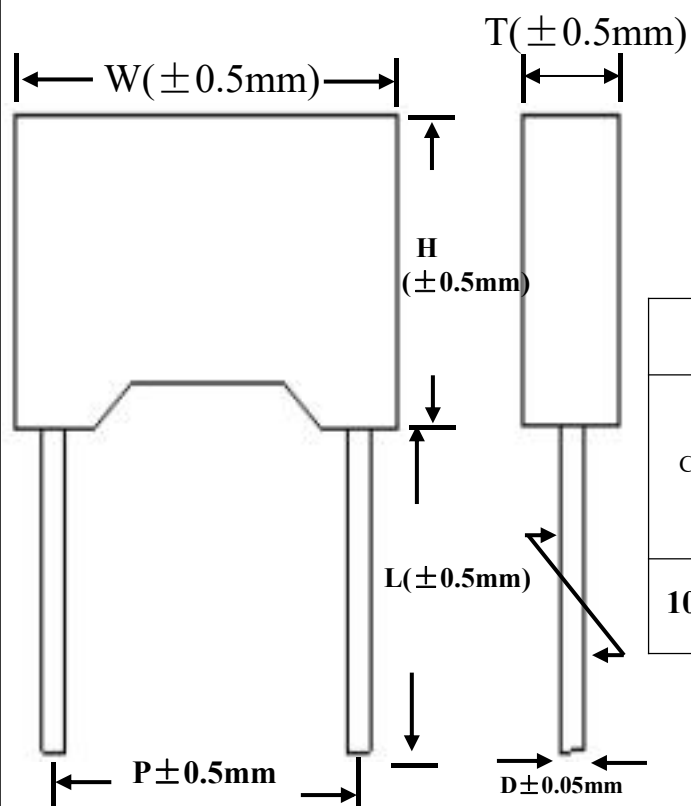
5. Rated Voltage:

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) KC60384-1 (2015-09)	SU03073-14001B SU03073-14002B SU03073-14003B SU03073-16001A	 (South Korea)

7. Dimensions:



CAPACITOR BODY SIZE (Unit:mm)

CAP	RV	BOX TYPE	W ± 0.5	H ± 0.5	T ± 0.5	D ± 0.05	L ± 0.5	P ± 0.5
104K	310V	D1	18	11	5	0.8	23	15

Lead Style

L	H	K	N	M	T	S
					TAPING (refer to next page)	Customer Require
CAP	RV	Lead Style	L model-A section $\pm 0.5\text{mm}$ H.K.N.M model-A section $\pm 0.5\text{mm}$	K.N.M model-B section $\pm 0.5\text{mm}$	$P(\pm 0.5\text{mm})$	
104K	310V	L	23MM		15MM	

8. Specifications (IEC60384-14)

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

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