



東莞市威慶電子有限公司

DONGGUAN WEIQING ELECTRONIC CO., LTD

SPEC NO.:2021111804

REV:B

承認書

SPECIFICATION

客戶名稱(CUSTOMER) : 深圳立创商务电子有限公司

產品名稱(PRODUUCT NAME) : CBB21 薄膜电容

承認規格(APPROVE ITEM) : 474J/450V P=10MM L=23MM

威慶料號(WEIQING PART NO.) : C322S474J10L230A60

樣品印字(SAMPLE PRINT) : CBB21/474J 450V

威慶確認表

WEIQING CONFIRM LIST

APPROVED	CHECKED	PREPARED
 Base 工程部	陶贵能	何湘华

客戶承認結果

CUSTOMER ACKNOWLEDGE THE RESULT

地址：中國東莞松山湖高新技術產業開發區科技十路7號12棟

Add: 1st Floor Building 12, No.7 Tenth Road of Science & Technology, DongGuan SongShan Lake High-tech Industrial Development Zone China

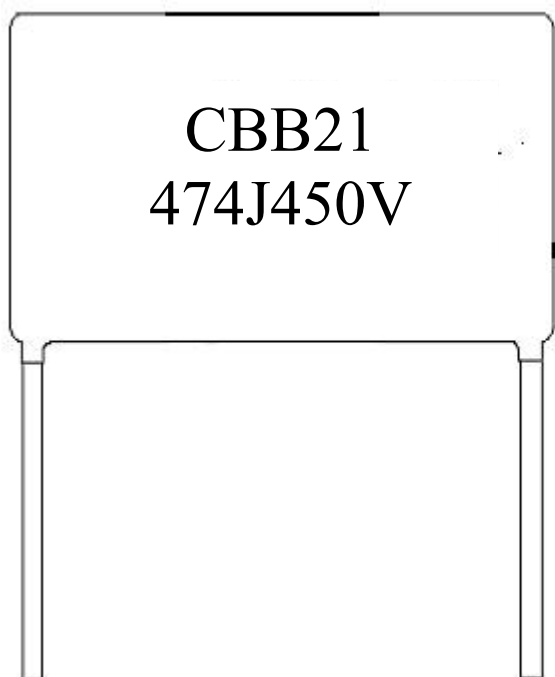
TEL : 0769- 88956188/88956198 FAX : 0769- 88956168

1. Specifications (IEC60384-16)

No	Test items	Performance	Test Method
1-1	Withstand voltage (Between Terminals)	Shall be no abnormality	100% Of Rated Voltage, 60sec.
	Between terminal and Enclosure	Shall be no abnormality	$UR \times 200\% + 1000VDC$, 60sec.
1-2	Insulation resistance (Between Terminals)	$CR \leq 0.33\mu F$ $IR \geq 15,000M\Omega$ $CR > 0.33\mu F$ $IR \geq 5,000 M\Omega \div C(\mu F)$	Measured at $100 \pm 15VDC$, For 60sec / 25°C
1-3	Capacitance	Within the tolerance specified	1KHz, 1Vrms Max. at 25°C
1-4	Dissipation Factor	0.001 (0.1%) Max.	1KHz, 1Vrms Max. at 25°C
1-5	Tense Strength of Terminal	No wire breakage and No Damage of Capacitor	1. Load Force : 1.0 Kg 2. Holding Time : 10 $\pm$ 1sec
1-6	Bending Strength of Terminal	No wire breakage and No Damage of Capacitor	1. Load Force : 0.5 Kg 2. Bending Time : 4 x 90° in 5sec
1-7	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)

No	Test items	Performance	Test Method
1-8	Solder-ability	95% Of The Surface Tinning	a. Solder temperature: $270 \pm 5^{\circ}\text{C}$ b. Solder time: $2 \pm 0.5\text{sec}$
1-9	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: $3 \pm 0.5\text{sec}$ c. Test Voltage: 150% of The Rate Voltage For 1min.
1-10	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
1-11	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: $105^{\circ}\text{C} \pm 2^{\circ}\text{C}$ b. Test Times: 2Hrs

2. Marking:



CBB21	Metallized Polypropylene Film Capacitor
474	CAPACITANCE
J	CAPACITANCE TOLERANCE
450	RATED DC VOLTAGE
V	VOLTAGE SYMBOL

3. PACKING:

CAP	R.V.	Lead Style	L model-A section($\pm 3\text{mm}$) H.K.N.M model-A section ($\pm 0.5\text{mm}$)	P($\pm 0.5\text{mm}$)
474J	450VDC	L	23MM	10MM

4.Storage conditions and duration

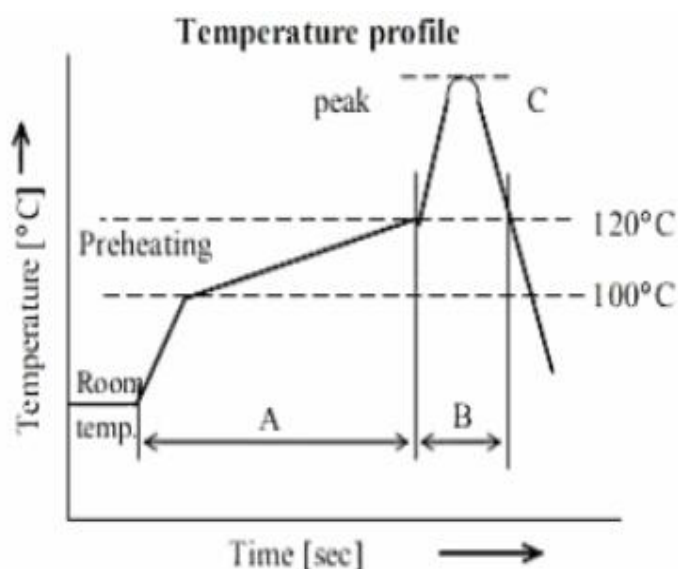
Packaged capacitors should be kept in clean, ventilated, dry coffers, not near the heat source, not subject to direct sunlight, is strictly prohibited and chemical reagents, acid and harmful gas storage together.

Capacitor at a temperature within the range 20 ~ 25 °C, humidity less than 50% of the state of storage for one year.

Lead Free wave soldering conditions

Component: Film Capacitors

1.Wave flow soldering



Recommendable condition

	Conditions	Values	Unit
A	Heating time	50-100	sec
	Heating temperature	100-120	°C
	Temp. rise gradient	1-2	°C/sec
B	Dipping time	<10	sec
C	Peak temperature	260	°C
	Peak-temp. hold time	Momentary	sec

2.Requirement (Wave flow soldering):

Polypropylene film capacitors body temperature less than 105°C, 60sec

Polyester film capacitors body temperature less than 120°C, 60sec

此类薄膜系列电容在客户端过波峰焊操作时，绝对不能过回流焊和 2 次波峰焊，否则产品会因热收缩导致性能问题。

3.Wave Flow soldering (solder dipping)

Peak temperature	260°C
Dipping time	<10 sec
Soldering	1 time

component for Insertion :Dipping to the lead joint of component

4.Hand soldering

Soldering iron tip temperature	350°C
Soldering time	3 sec