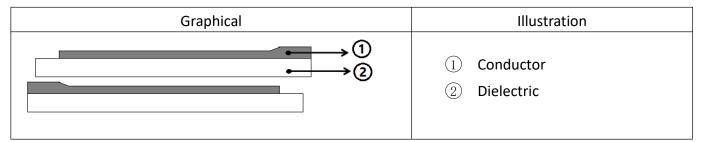
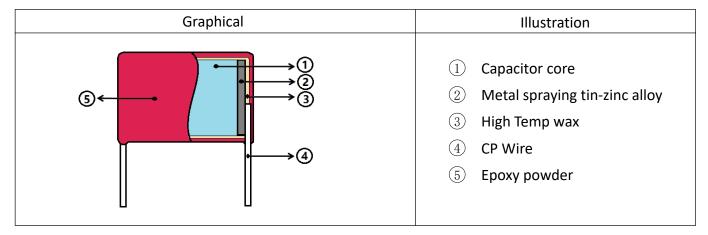
# KNSCHA ELECTRONICS CO., LIMITED.

CBB22 104J/630V P=10mm
Part No. 57CB5865
Customer's Name:
product use:
2025/2/24
Receipt Stamp
KNSCHA ELECTRONICS CO., LIMITED.  No. 3, Liaodong Road, 1st Industrial Zone, Pengwu Villa
Dongkeng Town, Dongguan, Guangdong, China
TEL:86-769-83697279 FAX:86-769-83697280
Email:betty@knscha.com Web:www.ajcgroup.com.
Drawn by:
Checked by:
Approved by:

## ■Core structure drawing



### ■Product structure drawing



■Outline style

KNSCHA	E	
		Brand
104	Cap Spe	ecification
J	Cap tole	erance
630V	Rated v	oltage
d 8 ±0.05	L ±2	Remark
0.6	22	
	J 630V 8 ±0.05	J Cap tole  630V Rated v  d L  8 ±0.05 ±2

#### Feature:

- Excellent self-healing ability
- Excellent temperature characteristic ability
- Excellent flame resistance ability
- Lower DF value and high insulation resistance

### ■Application:

• Widely used in DC,AC and impulse circuits.

# ■ Technical specification:

Standard refer	GB/T 14579 (IEC 60384-17)		
Climate category	40/105/21		
Flame resistance class	В		
Operating temp range	-40°C ~ +105°C		
Rated voltage	100 V、250V、400V、630V、1000V、1250V		
Cap range	0.001µF∼3.3µF		
Cap tolerance	J (±5%), K (±10%), M (±20%)		
Withstand voltage	1.6UR (5S)		
DF Value	≤ 0.1% (1KHz, 20°C)		
Insulation resistance	≥ 30000M $\Omega$ ; CR ≤ 0.33 $\mu$ F ≥ 10000S; CR > 0.33 $\mu$ F		

# MPP/CBB22 Metallized polypropylene film capacitors

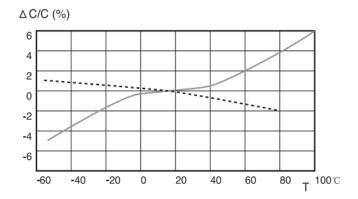
# ■Feature test

No.	Item	Performance requirement	Test Method
1	Initial test	Capacitance DF:1KHz	
	Out end leading intensity	There is no damage in outline	Tension test Ual: Tension: 0.5<φd≤0.8mm; 10N Bending test Ub: Twice in every direction:two consecutive turn 180degree
	Welding heat resistant	There is no damage in outline, clear remark	Solder Tb, method1A 260±5℃, 5±1S
	Final test	Capacitance: △C/C≤initial test value±5% DF value: DF increase≤0.01 (1KHz)	
2	Initial test	Capacitance DF Value: 1KHZ	
	Fast temp range	There is no damage in outline	$0_A=-40^{\circ}\text{C}$ , $0=+105^{\circ}\text{C}$ 5 times cycles, time of duratio: t=30min
	Shake	There is no damage in outline	Amplitude0.75mmor accelerated speed $98\text{m/s}^2$ , frequency $10{\sim}500\text{Hz}$ three direction, every direction 2h, total:6h
	Crash	There is no damage in outline	4000 times, accelerated speed 390 m/s²,impluse continue time: 6ms
	Final test	Capacitance: △C/C≤inital test value ±5% DF Value: DF increase ≤0.01 IR: ≥rated value50%	·
	Initial test	Capacitance DF Value: 1KHz	
	Heat dry		+105℃,16h
	Cyclic damp		Test Db,Severity 7
2	heat		b, primary circulation
3	Cold		_40℃, 2h
	ow air pressure	In the last minutes of the test,UR is not permanent	15~35℃,8.5Kpa,1h
	Cyclic damp heat	After the experiment is over,apply the UR 1 minute.	Test Db,severity b,other circulation
		1	1

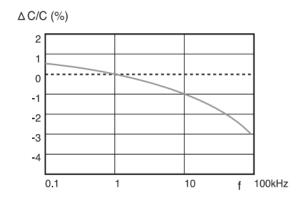
# MPP/CBB22 Metallized polypropylene film capacitors

No.	Item	Performance requirement	Test method
4	Final test	There is no damage in outline, clear mark Capacitance: △C/C≤initial test value ±5% DF Value: DF≤0.01 Withstand voltage: 1.6URDC,5S no breakdown or arc IR: ≥Rated value 50%	
5	Stable damp heat	There is no damage in outline, clear mark Capacitance: △C/C≤initial test value ±5% DF Value (1KHz): DF increase ≤0.01 Withstand voltage: 1.6U <sub>R</sub> DC,5S no break or arc IR: ≥Rated value 50%	Temp: 40±2℃ Humidity: 93±2%RH Duration time: 56 days
6	durability	There is no damager in outline, clear mark Capacitance: △C/C≤initial test value ±10%  DF Value(1KHz): DF increase≤0.01  Withstand voltage: 1.6U <sub>R</sub> DC,5S no breakdown or arc  IR: ≥Rated value 50%	+105℃, 1000h Applied voltage: 1.25UR rated voltage
7	Charge and discharge	Cap: △C/C≤initial test value±10%  DF Value(1KHz): DF increase ≤0.01  IR: ≥Rated value 50%	Time: 10000times   Durable charge time: 0.5S   Durable discharge time: 0.5S   Charge voltage is the rated voltage   Charge resistance: $220/C_R(\Omega)$ or $20\Omega$ (the bigger one) $C_{R \text{ is the mark of capacitance}}(\mu F)$
8	Flame resistant test	After leaving the flame, any capacitor will continue to burn for no more than 10s and the dripping of the capacitor should not be ignited in the laid cotton paper	IEC695-2-2 needle flame method Flame resistance class: B Capacitor volume: V (mm³) ≤250, Applied flame time is 5S Capacitor volume: 250 < V (mm³) ≤500, Applied flame time is 20s Capacitor volume: 500 < V (mm³) ≤1750, Applied flame time is 30s Capacitor volume: V (mm³) >1750, Applied flame time is 60s

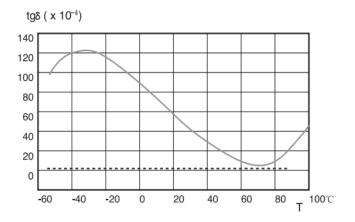
### ■Capacitor feature diagram:



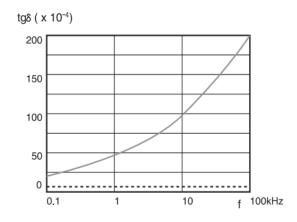
Capacitance vs. temperature at 1kHz



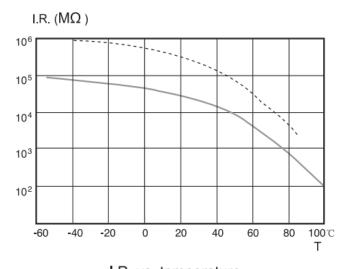
Capacitance vs. frequency (Room temperature)



Dissipation factor vs. temperature at 1kHz



Dissipation factor vs. frequency (Room temperature)



I.R. vs. temperature

聚丙烯薄膜 (Polypropylene Film)

聚酯薄膜 (Polyester Film)