



恆威科技(香港)有限公司
HANWAY TECHNOLOGY (H.K.) LTD.

規格承認書
SPECIFICATION FOR APPROVAL

客戶 (CUSTOMER) :
Kosmodrom

規格 (SPECIFICATION) :

日期 (DATE) :

備注 (REMARKS) :

Company Address: No. 2, 8/F., Blk. A, Veristrong Ind. Ctr.,
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PRODUCT SPECIFICATIONS

(規格外形尺寸説明)

ISSUED DATE :
制作日期

CUSTOMER (客戶名稱) :	
CUSTOMER'S PART NO. (客戶規格/料號) :	
DESCRIPTIONS (產品描述) :	
產品料號 :	

1. PRODUCT DIMENSIONS : (產品尺寸)

unit : mm

CUSTOMER'S PART NO. (客戶規格/料號)	CAP uF	Tol. +/- (%)	R.V. VDC	T.V. VDC	W max.	H max.	T max.	P +/-1.0	dΦ +/-0.05	L0 +/-0.5					PART NO. (料號)

PREPARED BY(制作者):	CHECKED BY(檢查人):	APPROVED BY(核准人):
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e.g. : **CBB81 102 J 3B L1 10**

- “CBB81” Product Type;
- 1 “102” Product Value;
- 2 “J” Tolerance;
- 3 “3B” Rated Voltage;
- 4 “L1” Lead Configuration ;
- 5 “10” Pitch

1 CAPACITANCE (EIA Code) : (電容量)

The first 2 digits indicate significant figures, and the third digit specifies the number of zero to follow. This gives the capacitance in picofarads. For examples:

- 101 = 100pF =0.1nF = 0.0001uF
- 102 = 1,000pF =1.0nF = 0.001uF
- 103 = 10,000pF =10nF = 0.01uF
- 104 = 100,000pF =100nF = 0.1uF
- 105 = 1,000,000pF =1,000nF = 1.0uF
- 106 = 10,000,000pF =10,000nF = 10uF

2 TOLERANCE (EIA Code) : (誤差)

TOLERANCE(誤差)	± 1%	± 2%	± 3%	± 5%	± 10%	± 20%	+80%-20%	+100%-0%
CODE(代碼)	F	G	H	J	K	M	Z	P

3 RATED VOLTAGE : (額定電壓) Expressed in 1digit-1-letter code for VDC and 2-digit code for VAC

VDC	4.0V	6.3V	10V	16V	25V	35V	50V	63V	80V	100V	160V	200V	250V	300V	
CODE(代碼)	0G	0J	1A	1C	1E	1V	1H	1J	1K	2A	2C	2D	2E	2F	

VDC	350V	400V	450V	500V	630V	800V	1000V	1250V	1600V	1800V	2000V	2500V	3000V	3500V	
CODE(代碼)	2V	2G	2W	2H	2J	2K	3A	3B	3C	3Q	3D	3E	3F	3V	

VAC	125	180	200	220	230	250	275	280	300	320	350	370	400	440	
CODE(代碼)	12	18	20	22	23	25	27	28	30	32	35	37	40	44	

VAC	450	500	600	700	800										
CODE(代碼)	45	50	60	70	80										

4 LEAD CONFIGURATION : (腳形)

CODE(代碼)	L1	L2	B1	B2	C	D	E	F	G	H	A1	A2	V1	V2	T	U
LEAD TYPE (圖示)																

5 LEAD SPACE : (本體腳距) Expressed in 2-digit or 1-digit-1-letter code

Unit : mm

LEAD SPACE	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	
CODE(代碼)	03	3P	04	4P	05	5P	06	6P	07	7P	08	8P	09	9P	10	

LEAD SPACE	12.5	15.0	17.5	20.0	22.5	25.0	27.5	30.0	32.5	35.0	37.5	N/A (Axial Type)			
CODE(代碼)	12	15	17	20	22	25	27	30	32	35	37	00			

6 Marking

Serial	Marking
	Under customer request

7 Packing

Serial	Packing	Quantity
	BULK	

★ Specification

TYPE(規格):

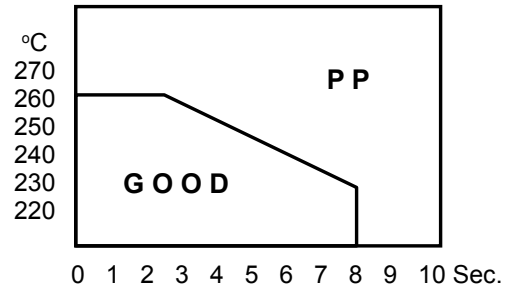
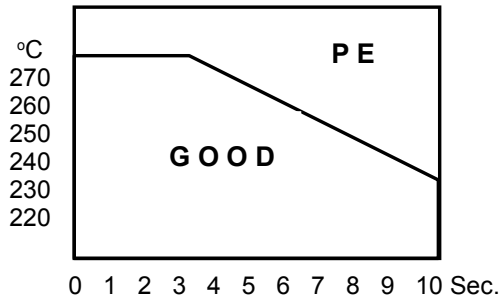
CBB81

No	Subject	Testing Condition	Result
1	Environment		-55 — +85℃
2	Rated Voltage		1000V — 2000VDC
3	Voltage Proof	Test Voltage: 1.75U _R ; Continuing Time: 1-5sec	Normal
4	Volume		0.01uF — 10uF
5	Tolerance (%)	Frequency: 1KHz ±0.1KHz ; Test Voltage: ≤1Vrms	J(±5%) ; K (±10%)
6	Dissipation Factor(DF)	Frequency: 1KHz ±0.1KHz ; Test Voltage: ≤1Vrms ; Temperature : 25℃	≤0.08%
7	Resistance(IR)	Test Voltage: 100VDC ; Temperature : 20℃ ±5℃ ; Continuing Time : 60 ±5sec	≥ 30000MΩ CR ≤ 0.1uF ≥ 3000s CR > 0.1uF (20℃, 1min)
8	Lead Extension	Lead Diameter (mm) Pull 0.3 < d ≤ 0.5 5N 0.5 < d ≤ 0.8 10N Time : 10sec	No Damage
9	Lead Bending	Lead Diameter (mm) Loading 0.3 < d ≤ 0.5 2.5N 0.5 < d ≤ 0.8 5N Bending each side of the lead divide into Front and Back : Twice at each side : Bending angle = 90°	No Damage
10	Solderability	Temperature: 250 ±3℃ ; Continuing Time: 2.0 ±0.5sec	Good
11	Heat	Temperature: 265 ±3℃ ; Continuing Time: 10 ±1sec	ΔC / C ≤ 2% Δtg δ ≤ 0.003 No Damage
12	Temperature change	Temperature: θ A = -55℃ ; θ B = +85℃ Continuing Time: 30min ; Cycle : 5 times ;	No Damage ΔC / C ≤ 5% Δtg δ ≤ 0.003
13	Vibrate	Frequency : 10---500Hz Time : 2 Hours for each direction , Total 6 Hours ; Vibrate Level : 0.75m	No Damage
14	Hit	Hit times : 4000 times ; Acceleration : 390m/s ; Impulse : 6ms ;	No Damage
15	Humidity & Heat	Temperature : 40 ±2℃ ; Humidity : 90—95% ; Continuing Time : 21Days (500 Hours) ;	No Damage / Clear Marking ΔC / C ≤ 5% Δtg δ ≤ 0.005 IR ≥ initial 50%
16	Environment	Heat	Normal No Damage ΔC / C ≤ 5% Δtg δ ≤ 0.005 IR ≥ initial 50%
		Hum. Heat	
		Cold	
		Low Pres.	
		Hum. Heat	
17	Endurance	85℃ , Applied 1.25x Rated Voltage , Continuing Time : 1000 Hours (41.6 Days)	No Damage ΔC / C ≤ 5% Δtg δ ≤ 0.005 IR ≥ initial 50%
18	Charge & Discharge	Testing Period: 10000 Times(Ten Thousand) ; Charging time : 0.5s ; Discharging time : 0.5s ;	ΔC / C ≤ 5% Δtg δ ≤ 0.005 IR ≥ initial 50%

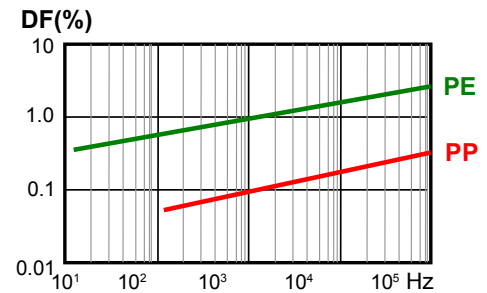
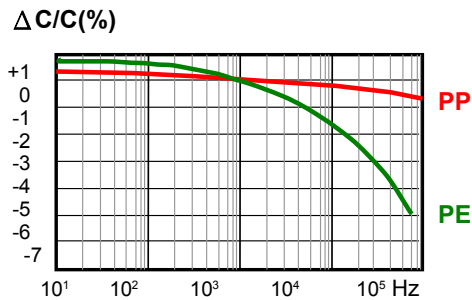
CHARACTERISTICS REFERENCE

焊錫溫度、頻率、溫度特性曲線圖

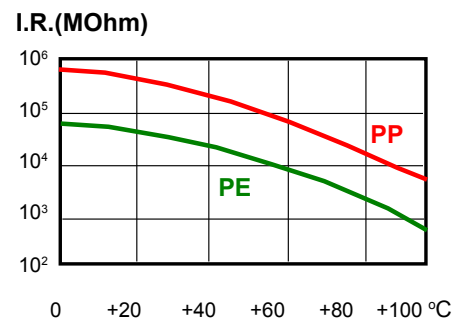
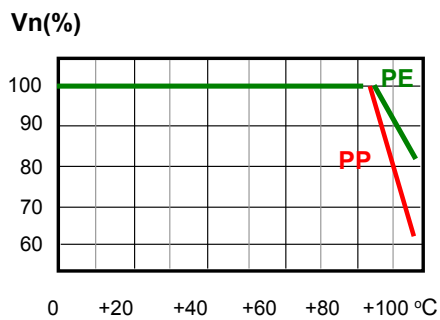
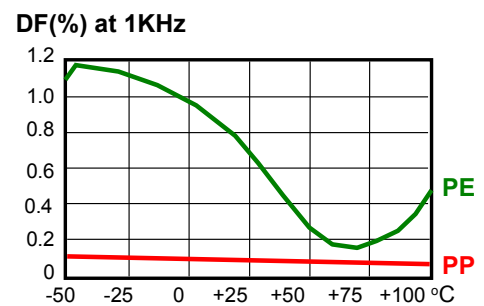
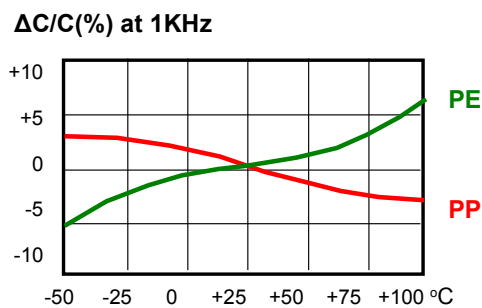
Soldering Temperature VS Time



Frequency Characteristics



Temperature Characteristics



Permissible AC Voltage VS Frequency Curve

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容許交流電壓VS頻率曲線圖

