

POLYPROPYLENE FILM/FOIL CAPACITOR(INDUCTIVE)

CBB11

FEATURES

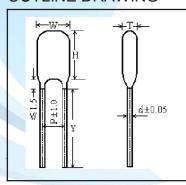
- Film/foil capacitor, inductive wound, dipped
- Excellent frequency and temperature characteristics
- Epoxy resin vacuum-dipped enhances the mechanical strength, humidity resistance



TYPICAL APPLICATIONS

Suitable for timing circuit and oscillation circuit

OUTLINE DRAWING



	Forming Lead Shapes				
1 25-11	· II		IV		
A B B	A A B		A B B		
P≥F		P <	₹F		
0mm≤P-F≤3mm	3mm <p-f≤8mm< td=""><td>3mm<f-p≤5mm< td=""><td>0mm<f-p≤3mm< td=""></f-p≤3mm<></td></f-p≤5mm<></td></p-f≤8mm<>	3mm <f-p≤5mm< td=""><td>0mm<f-p≤3mm< td=""></f-p≤3mm<></td></f-p≤5mm<>	0mm <f-p≤3mm< td=""></f-p≤3mm<>		
F±1.0mm; A≤5.0mm; B=4.5±0.5mm					

SPECIFICATIONS

Reference Standard	GB 10188(IEC 60384-13)	
Climatic Category	40/100/21	
Rated temperature	85°C	
Operating Temperature	-40°C~105°C (+85°C to +105°C: decreasing factor 1.25% per °C for VR(DC))	
Rated Voltage	50/63/100V	
Capacitance Range	0.0010µF∼0.10µF	
Capacitance Tolerance	±2%(G), ±5%(J), ±10%(K)	
Voltage Proof	2.0U _R (5 _s)	
Dissipation Factor	≤10×10 ⁻⁴ (1kHz, 20°C)	
Insulation Resistance	≥50 000MΩ (20°C, 10V,1min)	

TEST METHOD AND PERFORMANCE

No.	Item		Performance	Test method (IEC60384-2)	
1	1 Solderability		Good quality of tinning	Solder temperature:245°C±5°C Imme	ersion time: 2.0s±0.5s
2	2 Terminal strength		There shall be no visible damage △C/C≤±2%(relative to the initial value)	Tension Ua1: Pull:Фd=0.5mm,5N	
3	Resistance to solder heat		There shall be no visible damage, legible marking ∆C/C≤±2%(relative to the initial value)	Solder temperature:260°C±5°C Immersion time: 10s±1s	
4	Rapid change of temperature		There shall be no visible damage △C/C≤±2%(relative to the initial value) Tgδ:≤0.0010(1kHz)	θ_A =-40°C, θ_B =+85°C5 cycles Duration: t=30min	
5	Vibration		There shall be no visibledamage. ∆C/Cs±(2%+2pF)(relative to the initial value) Tgδ:≤0.0010(1kHz)	Amplitude 0.75mm or acceleration 98m/s² (smaller severity), f: 10Hz to 500Hz.Three didirection, total 6h.	
6	Bump		There shall be no visibledamage. △C/C≤±(2%+2pF)(relative to the initial value) Tgδ:≤0.0010(1kHz)	4000 times,Acceleration: 390m/s² ,Pulse duration, 6ms	
	Climate sequence	Dry heat		+85°C, 16h	
7		Damp heat,Cyclic		Test Db, Severity: b, the first cycle	
		Cold		-40°C, 2h	

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	No.		Item	Performance	Test method (IEC60384-2)
			Low air pressure	There shall be no permanent breakdown, flashover or other harmful deformation when applying U _R at the last 5 minute.	15°C∼ 35°C, 8.5kPa, 1h,
	7	Climate sequence		There shall be no evidence of deterioration and the marking shall be legible. △C/C≤±(2%+2pF)(relative to the initial value) Tgδ:≤0.0010 or 1.4times initial value (whichever is the greater) I.R.:≥50% of the rated value	Test Db, Severity b, the other cycles
	8 Damp heat steady state		steady state	There shall be no visible damage and the marking shall be legible., △C/C≤±(2%+2pF)(relative to the initial value) Tgδ:≤0.0010 or 1.4times initial value (whichever is the greater) I.R.≿50%of the rated value	Temperature:40°C±2°C Humidity: 93 - ² 3 %RH Duration: 21days
	9	Endurance		There shall be no visible damage and the marking shall be legible. ΔC/C≤±(2%+2pF)(relative to the initial value) Tgδ:≤0.0010 or 1.4times initial value (whichever is the greater) I.R.:≥50% of the rated value	Temperature: +85°C Voltage: 1.25×U _R Duration: 1 000h
	10	Temperatur characterist		Measuring capacitance and temperature at test point a, b, d, f, g.: 1. Temperature coefficient of the capacitance(α):At lower category Temperature: $\alpha_h = \frac{C_n - C_d}{C_c (\theta_h - \theta_d)}$ At upper category Temperature: $\alpha_l = \frac{C_l - C_d}{C_c (\theta_l - \theta_d)}$ $-500 \times 10^{-5} / {}^{\circ}\text{C} \leqslant \alpha_b \text{ and } \alpha_l \leqslant 0 \times 10^{-5} / {}^{\circ}\text{C}$ 2. Temperature cycle excursion of the capacitance (δ): $\delta_{da} = \frac{C_c - C_a}{C_d} + \delta_{cd} = \frac{C_c - C_c}{C_d}$ $\delta_{da}, \delta_{dd}, \delta_{dd}, \delta_{dd} \leqslant \pm \{2\% + 2\text{PF}\}$	Static method: The Capacitors should be kept at the following temperature in turn: a(20±2)°C, b(-40±3)°C, d(20±2) °C, f(85±2)°C, g(20±2)°C