

METALLIZED POLYPROPYLENE FILM CAPACITOR

FEATURES

- Metallized polypropylene structure
- Low loss at high frequency
- Small inherent temperature rise



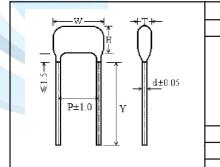
CBB21

• Flame retardant epoxy resin powder coating (UL94/V-0)

TYPICAL APPLICATIONS

- Widely used in high frequency, DC,AC and pulse circuits
- Providing optimum performance with small size in S-c orrection circuits for colour TV set
- Specially designed for S-correction circuits of large screen monitor and colour TV
- Suitable for the situation where applies high frequency and high current pulse

OUTLINE DRAWING



	Forming Lead Shapes			
1	11	III	IV	
A B	A B		A B	
P≥F		P <f< td=""></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

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Reference Standard	GB/T 14579(IEC 60384-17)		
Climatic Category	40/105/21		
Rated temperature	85°C		
Operating Temperature	-40°C~105°C (+85°C to +105°C: decreasing factor 1.25% per °C for V _R (DC))		
Rated Voltage	100V/160V, 250V, 400V, 630V, 1000V/1250V		
Capacitance Range	0.0010µF∼3. 3µF		
Capacitance Tolerance	±5%(J), ±10%(K), ±20%(M)		
Voltage Proof	1. 6U _R (5 _s)		
Dissipation Factor	≤10×10 ⁻⁴ (20°C,1kHz)		
Insulation Resistance	≥50 000M Ω , C_R ≤0.33 μ F ≥15 000s, C_R >0.33 μ F (20°C,100V,1min)		

TEST METHOD AND PERFORMANCE

No.	Item	em Performance Test method(IEC 60384-17)	
1	Solderability	Good quality of tinning	Solder temperature:245°C±5°C Immersion time: 2.0s±0.5s
	Initial measurement	Capacitance Tgδ:1kHz, C>1.0μF 10kHz, C≤1.0μF	
2	Terminal strength	There shall be no visible damage	Tension: 0.6≤Φd≤0.8mm, 10N Φd=1.0mm, 20N Bend: 0.6≤Φd≤0.8mm, 5N Φd=1.0mm, 10N The terminals shall be bent 2 times in each direction.
	Resistance to solder heat	There shall be no visible damage	Solder temperature:260°C±5°C Immersion time: 10s±1s
	Final measurement	△C/C≤±3%(relative to the initial value) Increase of tgδ: ≤0.004 (10kHz,C≤1.0μF) ≤0.004 (1kHz,C>1.0μF)	
	Initial measurement	Capacitance, Tgδ:1kHz, C > 1.0μF 10kHz, C≤1.0μF	
3	Rapid change of temperature	There shall be no evidence of deterioration.	θ_A =-55°C, θ_B =+85°C5 cycles Duration: t=30min
	Vibration	There shall be no evidence of deterioration.	Amplitude 0.75mm or acceleration 98m/s ² (whichever is the smaller severity), f: 10Hz to 500Hz.Three directions, 2h for each direction, total 6h.



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L	No.		Item	Performance	Test method(IEC 60384-17)
		Bump		There shall be no evidence of deterioration.	4000 times, Acceleration: 390m/s², Pulse duration, 6ms
Final measurement		urement			
		Climate sequence	Initial measurement	Capacitance, Tgδ:1kHz, C>1.0μF 10kHz, C≤1.0μF	
			Dry heat		+85°C, 16h
			Damp heat, Cyclic		Test Db, Severity: b, the first cycle
			Cold		-40°C, 2h
	4		Low air pressure	There shall be no permanent breakdown, flashover or other harmful deformation when applying U _R at the last 1 minute.	15°C~ 35°C, 8.5kPa, 1h,
			Damp heat,		Test Db, Severity b, the other cycles,
ų.			cyclic other		Applying U _R for 1 minute after the test finished.
		climate sequence (continue)	Final measurement	There shall be no evidence of deterioration and the marking shall be legible. △C/C≤±5%(relative to the initial value) Increase of tgō: ≤0.005(10kHz, C≤1.0μF) ≤0.005 (1kHz, C>1.0μF) IR: ≥50% of the rated value	
	5	Damp heat	steady state	There shall be no evidence of deterioration and the marking shall be legible. △C/C≤±5%(relative to the initial value) Increase of tgŏ≤0.005 IR:≥50%of the rated value	Temperature:40°C±2°C Humidity: 93 -₃ ¹ %RH Duration: 21days
	6	Endurance		△C/C≤±5%(relative to the initial value) Increase of tgō: ≤0.004 (10kHz, C≤1.0μF) ≤0.004 (1kHz, C>1.0μF) IR:≥50%of the rated value	Temperature: +85°C Voltage: 1.25×U _R Duration: 1 000h
	7 Temperature characteristic			Measuring capacitance at test point b, d, f: Characteristic at lower category temperature -40°C: $0 \le (C_b - C_d)/C_d \le +3\%$ Characteristic at upper category temperature +85°C: $-3.25\% \le (C_f - C_d)/C_d \le 0$	Static method: The capacitors should be kept at the following temperature in turn: a.(+20±2)°C b.(-40±2)°C d.(20±2)°C f.(+85±2)°C g.(+20±2)°C
	8	Charging a discharging		△C/C≤±5%(relative to the initial value) Increase of tgō: ≤0.005 (10kHz, C≤1.0μF) ≤0.005 (1kHz, C>1.0μF) IR:≥50%of the rated value	Times: 10 000 Duration of charging: 0.5s Duration of discharging: 0.5s Charging voltage: rated voltage Charging resistance: $220/C_R(\Omega)$ Discharging resistance: $R=10/C_R(\Omega)$ or 20 (whichever is the greater) C_R : rated capacitance (μ F)