

Film Foil Capacitors

Reference Standard

GB10188 (IEC384-13)

Structures

Material: Polypropylene film

Electrode: Aluminum Foil

Enveloped with Fire-proof epoxy resin.

Pin: CP leads or Copper wire.

Using area

High Frequency, DC, and Impulsion High Current conditions.

Monitor and power supplier etc

Features:

Very low loss at high frequency could bear the high currents' impactive.

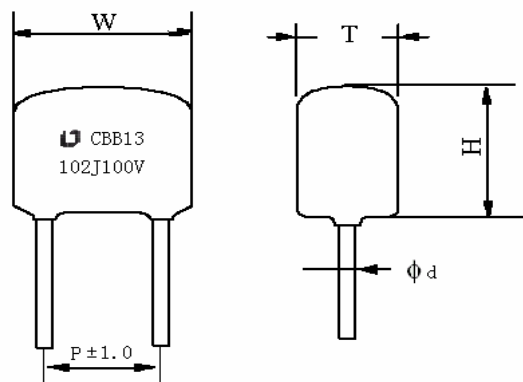
Specifications

Climate Conditions	-40--+85℃				
Rated Voltage dc	250V、400V、630V、1000V				
Capacitance Tolerance	0.001μF-0.47μF				
Capacitance Tolerance	±5% ±10%				
Testing Voltage	2.0UR (5S)				
Insulation Resistance and Time Consistence	≤0.33μF	≥30000MΩ			
	>0.33μF	≥10000S (MΩ. μF)			
Dissipation Factor	≤0.0008 10kHz 20 ℃				
Climate Category	Temperature: 40±2℃ Humidity: 93%RH Lasting Time: 21 Days There is no visible damage with the clearly mark. Capacitance: ΔC/C≤5% Dissipation Factor (1KHz): Increasing≤0.002 Insulation Resistance IR: ≥50% of Rated				
Endurance Test	+85℃, 1000h Applying Voltage:1.25*Rate Voltage Capacitance: ΔC/C≤5% Insulation Resistance: ≥50% of Rated				
dv/dt (v/μs)	Pitch	8.5/10/11	14	19/21	24/25/26
	dv/dt 1500		800	500	300

The exchanging of AC and DC

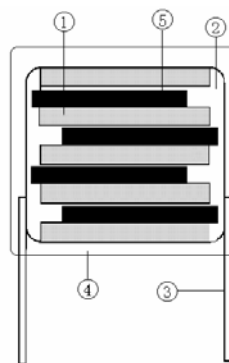
DC 250VDC		400VDC	630VDC
AC 160V	AC	200VAC	250VAC

Outline Drawing



Pitch mm	10	15	19-26
The Diameter of the Pin mm	0.6	0.6/0.8	0.8

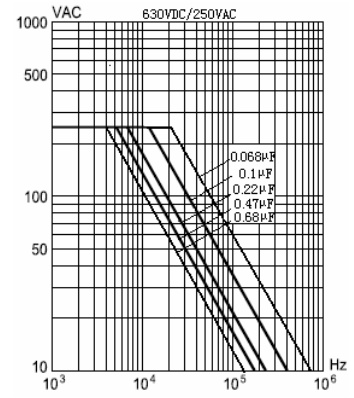
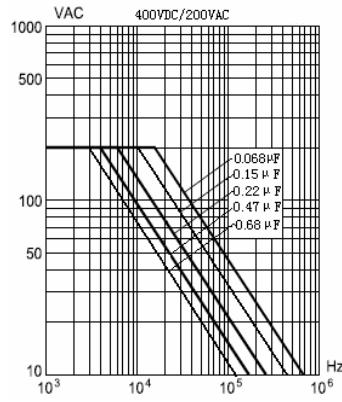
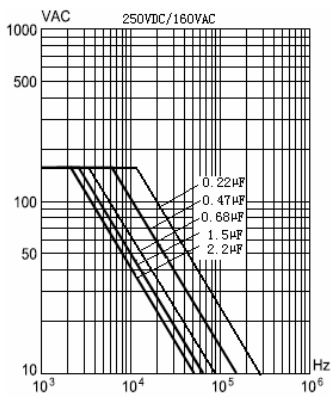
Structure



Explanation:

- ①Polypropylene Film
- ②Mental Spay Layer
- ③CP Leads
- ④Epoxy Resin
- ⑤Aluminum Foil
- ⑥RoHS Compliant

■ The Relationship of AC Voltage Proof and Frequency



CBB13 (PPN) Dimension Lists

Cap.	Part No.	Dimensions (mm)			Pitch (mm)
		W±1.0	T ±1.0	H±1.0	
250VDC					
102	PPN102J(K)212061000	12	5.5	9.5	8.5
122	PPN122J(K)212061000	12	5.5	9.5	8.5
152	PPN152J(K)212061000	12	5.5	9.5	8.5
182	PPN182J(K)212061000	12	5.5	9.5	8.5
222	PPN222J(K)212061000	12	5.5	9.5	8.5
332	PPN332J(K)212071000	12	6.5	10	8.5
392	PPN392J(K)212071000	12	6.5	10	8.5
472	PPN472J(K)212071000	12	6.5	10	8.5
562	PPN562J(K)212071100	12	7	11	8.5
682	PPN682J(K)212071100	12	7	11	8.5
822	PPN822J(K)214071200	14	7	11.5	10
103	PPN103J(K)214071200	14	7	11.5	10
123	PPN123J(K)218061200	18	6	11.5	14
153	PPN153J(K)218061200	18	6	11.5	14
183	PPN183J(K)218061200	18	6.5	11.5	14
223	PPN223J(K)218071200	18	7	12	14
273	PPN273J(K)218071400	18	7	13.5	14
333	PPN333J(K)218081400	18	7.5	14	14
393	PPN393J(K)218081500	18	8	14.5	14
473	PPN473J(K)21809160	18	8.5	15.5	14
563	PPN563J(K)230817000	22.5	8	16.5	19
683	PPN683J(K)23091700	22.5	8.5	17	19
823	PPN823J(K)23091800	22.5	9	17.5	19
104	PPN104J(K)23101800	22.5	10	18	19
124	PPN124J(K)25112100	25	11	21	21
154	PPN154J(K)25112100	25	11	21	21
184	PPN184J(K)29112300	29	11	23	25
224	PPN224J(K)29112300	29	11	23	25
274	PPN274J(K)29132500	29	13	25	25
334	PPN334J(K)29152600	30	15	26	25
394	PPN394J(K)29172800	30	17	28	25
474	PPN474J(K)29182900	30	18	29	25

Cap.	Part No.	Dimensions (mm)			Pitch (mm)
		W±1.0	T ±1.0	H±1.0	
400VDC					
102	PPN102J(K)414061000	13.5	6	10	10
122	PPN122J(K)414061000	13.5	6	10	10
152	PPN152J(K)414061000	13.5	6	10	10
182	PPN182J(K)414061000	13.5	6	10	10
222	PPN222J(K)414061000	13.5	6	10	10
272	PPN272J(K)414061000	13.5	6	10	10
332	PPN332J(K)414061000	13.5	6	10	10
392	PPN392J(K)415061200	15	6	11.5	11
472	PPN472J(K)415061200	15	6	11.5	11
562	PPN562J(K)415071200	15	7	12	11
682	PPN682J(K)415071200	15	7	12	11
822	PPN822J(K)415081300	15	8	13	11
103	PPN103J(K)415081300	15	8	13	11
123	PPN123J(K)418071300	18	7	12.5	14
153	PPN153J(K)418071300	18	7	12.5	14
183	PPN183J(K)418081300	18	7.5	12.5	14
223	PPN223J(K)418081400	18	8	13.5	14
273	PPN273J(K)418081500	18	8	15	14
333	PPN333J(K)423081500	22.5	8	15	19
393	PPN393J(K)423091600	22.5	8.5	15.5	19
473	PPN473J(K)423091600	22.5	9	16	19
563	PPN563J(K)423091700	22.5	9	17	19
683	PPN683J(K)423101900	22.5	10	18.5	19
823	PPN823J(K)423111900	22.5	11	19	19
104	PPN104J(K)429101800	29	10	18	24
124	PPN124J(K)429131000	29	13	21	24
154	PPN154J(K)429131000	29	13	21	24
184	PPN184J(K)430142500	30	13.5	25	25
224	PPN224J(K)430142500	30	13.5	25	25
274	PPN274J(K)431142600	31	14	26	26
334	PPN334J(K)431152700	31	15	27	26
394	PPN394J(K)431172900	31	17	29	26
474	PPN474J(K)432203000	32	20	30	26

Cap.	Part No.	Dimensions (mm)			Pitch (mm)
		W±1.0	T ±1.0	H±1.0	
630VDC					
102	PPN102J(K)615061000	14.5	6	10	11
122	PPN122J(K)615061000	14.5	6	10	11
152	PPN152J(K)615071100	14.5	6.5	11	11
182	PPN182J(K)615071100	14.5	6.5	11	11
222	PPN222J(K)615071100	14.5	6.5	11	11
272	PPN272J(K)615081200	14.5	7.5	12	11
332	PPN332J(K)615081200	14.5	7.5	12	11
392	PPN392J(K)615091300	14.5	8.5	13	11
472	PPN472J(K)615091300	14.5	8.5	13	11
562	PPN562J(K)618071300	18	7	12.5	14
682	PPN682J(K)618071300	18	7	12.5	14
822	PPN822J(K)618081500	18	7.5	14.5	14
103	PPN103J(K)618081500	18	7.5	14.5	14
123	PPN123J(K)623081500	22.5	8	15	19
153	PPN153J(K)623081500	22.5	8	15	19
183	PPN183J(K)623091600	22.5	8.5	15.5	19
223	PPN223J(K)623091600	22.5	9	16	19
273	PPN273J(K)623101800	22.5	9.5	17.5	19
333	PPN333J(K)623101900	22.5	10	18.5	19
393	PPN393J(K)623111900	22.5	11	19	19
473	PPN473J(K)623122000	22.5	11.5	20	19
563	PPN563J(K)629111900	29	11	19	24
683	PPN683J(K)629122000	29	12	20	24
823	PPN823J(K)629122200	29	12	22	24
104	PPN104J(K)629142300	29	13.5	23	24