



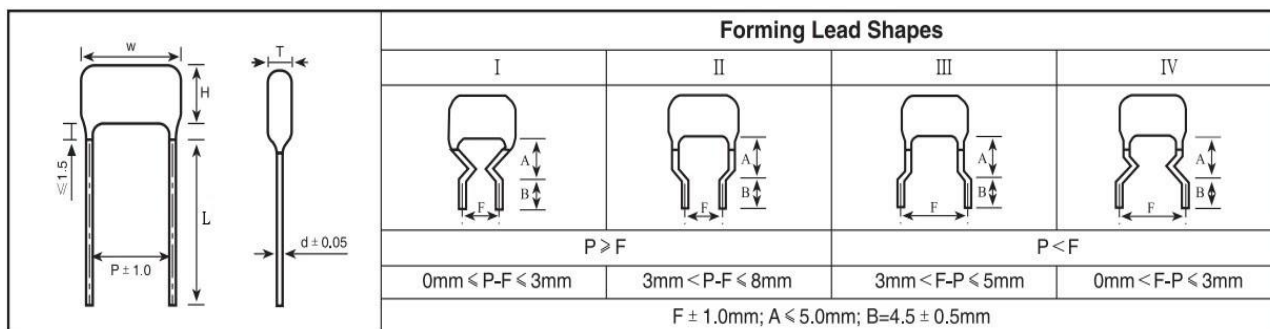
Light starter capacitor CBB13 (PPN)

Polypropylene Film Capacitor Type: CBB13

为无感结构，用聚丙烯膜作为电介质和铝箔为电极绕制而成，导线采用镀锡铜包钢线，使用环氧树脂包封。

Are non-inductively wound with polypropylene film as dielectric and aluminum foil as the electrode with copper-clad steel leads and epoxy resin coating.

◆ 外形图: Outline Drawing:



◆ 特性:

- 低等效串联阻抗。
- 损耗因素小、绝缘电阻高
- 电容量和损耗因素功能温度频率对比的稳定性高
- 无感式结构和具有自愈性

◆ Features:

- Low equivalent series resistance.
- Low dissipation factor high insulation resistance.
- High stability of capacitance and DF versus temperature and frequency.
- Non-inductive construction and self-healing property.

◆ 主要用途:

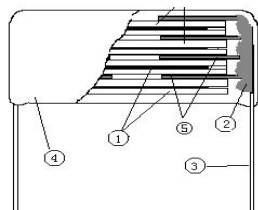
- 广泛用于大电流、耦合及补偿电路中。
- 远程通讯、数据处理、工业仪表、自动控制系统的管理。

◆ Typical Applications:

- Widely used in large current, coupling and compensation circuit.
- Designed for all kind of light's starter.

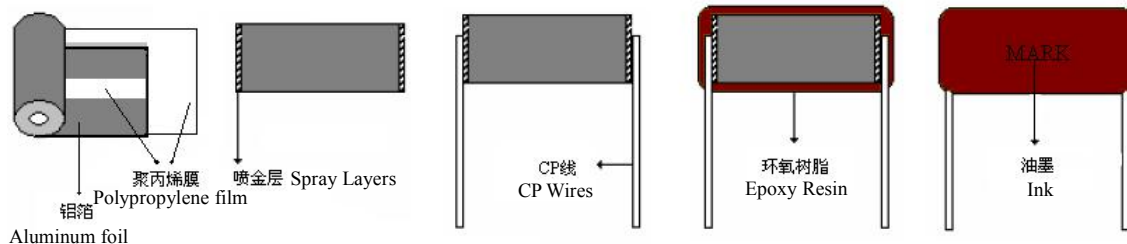
◆ 结构图:

structure chart:



- ① 聚丙烯膜
- ② 喷金层
- ③ CP 线
- ④ 环氧树脂
- ⑤ 铝箔

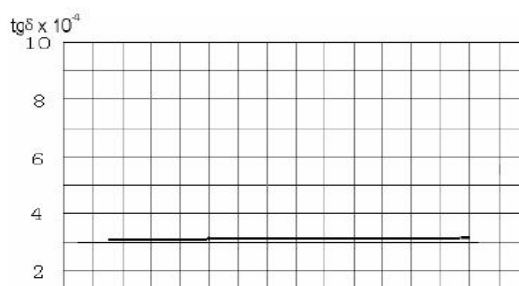
- Polypropylene film
- Spray Layers
- CP Wires
- Epoxy Resin
- Aluminum foil



◆ 性能说明：
Specification:

Reference Standards:	GB10190-88(IEC60384-13)
Rated Voltage(UR):	250VDC; 400VDC; 630VDC; 1000VDC
Climate Category	40/105/21
Rated Temperature	85°C
Operation Temperature Range:	-50°C - +105°C(+85°C to +105°C , decreasing factor 1.25% per°C for VR (dc))
Capacitance Range:	0.001μF – 0.47μF
Capacitance Tolerance Range:	J(±5%); K(±10%) ; M(±20%)
Dielectric:	Polypropylene Film
(25°C±5°C) Dissipation Factor	≤0.1% (1KHZ, 20°C)
Insulation Resistance(Between Terminals):	100VDC, 1Min 20°C CR<0.1uF ≥50000MΩ CR>0.1uF ≥5000MΩ
Withstand Voltage:	2UR(5S)
Life. Test Conditions:	100±2°C , 1.25UR, 1,000Hours Capacitance Drift: ≤±5% Of the initial value Dissipation Factor ≤50% Of the initial value

◆ 聚丙烯膜电容器特性曲线：
Polypropylene film capacitor characteristic curve:



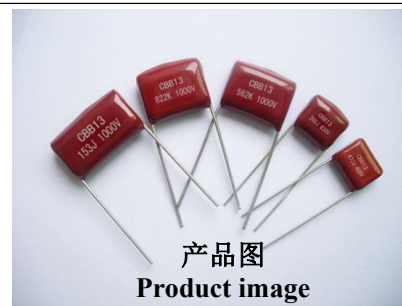


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◆ **外形尺寸（mm）表**
Dimension Lists（mm）



聚丙烯膜电容器 CBB13
Polypropylene Film Capacitor
Type: CBB13



Cap Code	Cap Value uF	Part No	Dimensions (mm)			
			Wmax	T max	H max	P ±1.0
250VDC						
102	0.0010	PPN102J(K)250V	12.0	5.5	9.5	8.5
122	0.0012	PPN122J(K)250V	12.0	5.5	9.5	8.5
152	0.0015	PPN152J(K)250V	12.0	5.5	9.5	8.5
182	0.0018	PPN182J(K)250V	12.0	5.5	9.5	8.5
222	0.0022	PPN222J(K)250V	12.0	5.5	9.5	8.5
332	0.0033	PPN332J(K)250V	12.0	6.5	10.0	8.5
392	0.0039	PPN392J(K)250V	12.0	6.5	10.0	8.5
472	0.0047	PPN472J(K)250V	12.0	6.5	10.0	8.5
562	0.0056	PPN562J(K)250V	12.0	7.0	11.0	8.5
682	0.0068	PPN682J(K)250V	12.0	7.0	11.0	8.5
822	0.0082	PPN822J(K)250V	14.0	7.0	11.5	10.0
103	0.010	PPN103J(K)250V	14.0	7.0	11.5	10.0
123	0.012	PPN123J(K)250V	18.0	6.0	11.5	14.0
153	0.015	PPN153J(K)250V	18.0	6.0	11.5	14.0
183	0.018	PPN183J(K)250V	18.0	6.5	11.5	14.0
223	0.022	PPN223J(K)250V	18.0	7.0	12.0	14.0
273	0.027	PPN273J(K)250V	18.0	7.0	13.5	14.0
333	0.033	PPN333J(K)250V	18.0	7.5	14.0	14.0
393	0.039	PPN393J(K)250V	18.0	8.0	14.5	14.0
473	0.047	PPN473J(K)250V	18.0	8.5	15.5	14.0
563	0.056	PPN563J(K)250V	22.5	8.0	16.5	19.0
683	0.068	PPN683J(K)250V	22.5	8.5	17.0	19.0
823	0.082	PPN823J(K)250V	22.5	9.0	17.5	19.0
104	0.10	PPN104J(K)250V	22.5	10.0	18.0	19.0
124	0.12	PPN124J(K)250V	25.0	11.0	21.0	21.0
154	0.15	PPN154J(K)250V	25.0	11.0	21.0	21.0
184	0.18	PPN184J(K)250V	29.0	11.0	23.0	25.0
224	0.22	PPN224J(K)250V	29.0	11.0	23.0	25.0
274	0.27	PPN274J(K)250V	29.0	13.0	25.0	25.0
334	0.33	PPN334J(K)250V	30.0	15.0	26.0	25.0



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394	0.39	PPN394J(K)250V	30.0	17.0	28.0	25.0
474	0.47	PPN474J(K)250V	30.0	18.0	29.0	25.0
400VDC						
102	0.001	PPN102J(K)400V	13.5	6.0	10.0	10.0
122	0.0012	PPN122J(K)400V	13.5	6.0	10.0	10.0
152	0.0015	PPN152J(K)400V	13.5	6.0	10.0	10.0
182	0.0018	PPN182J(K)400V	13.5	6.0	10.0	10.0
222	0.0022	PPN222J(K)400V	13.5	6.0	10.0	10.0
272	0.0027	PPN272J(K)400V	13.5	6.0	10.0	10.0
332	0.0033	PPN332J(K)400V	13.5	6.0	10.0	10.0
392	0.0039	PPN392J(K)400V	15.0	6.0	11.5	11.0
472	0.0047	PPN472J(K)400V	15.0	6.0	11.5	11.0
562	0.0056	PPN562J(K)400V	15.0	7.0	12.0	11.0
682	0.0068	PPN682J(K)400V	15.0	7.0	12.0	11.0
822	0.0082	PPN822J(K)400V	15.0	8.0	13.0	11.0
103	0.010	PPN103J(K)400V	15.0	8.0	13.0	11.0
123	0.012	PPN123J(K)400V	18.0	7.0	12.5	14.0
153	0.015	PPN153J(K)400V	18.0	7.0	12.5	14.0
183	0.018	PPN183J(K)400V	18.0	7.5	12.5	14.0
223	0.022	PPN223J(K)400V	18.0	8.0	13.5	14.0
273	0.027	PPN273J(K)400V	18.0	8.0	15.0	14.0
333	0.033	PPN333J(K)400V	22.5	8.0	15.0	19.0
393	0.039	PPN393J(K)400V	22.5	8.5	15.5	19.0
473	0.047	PPN473J(K)400V	22.5	9.0	16.0	19.0
563	0.056	PPN563J(K)400V	22.5	9.0	17.0	19.0
683	0.068	PPN683J(K)400V	22.5	10.0	18.5	19.0
823	0.082	PPN823J(K)400V	22.5	11.0	19.0	19.0
104	0.10	PPN104J(K)400V	29.0	10.0	18.0	24.0
124	0.12	PPN124J(K)400V	29.0	13.0	21.0	24.0
154	0.15	PPN154J(K)400V	29.0	13.0	21.0	24.0
184	0.18	PPN184J(K)400V	30.0	13.5	25.0	25.0
224	0.22	PPN224J(K)400V	30.0	13.5	25.0	25.0
274	0.27	PPN274J(K)400V	31.0	14.0	26.0	26.0
334	0.33	PPN334J(K)400V	31.0	15.0	27.0	26.0
394	0.39	PPN394J(K)400V	31.0	17.0	29.0	26.0
474	0.47	PPN474J(K)400V	32.0	20.0	30.0	26.0
630VDC						
102	0.001	PPN102J(K)630V	14.5	6.0	10.0	11.0
122	0.0012	PPN122J(K)630V	14.5	6.0	10.0	11.0
152	0.0015	PPN152J(K)630V	14.5	6.5	11.0	11.0
182	0.0018	PPN182J(K)630V	14.5	6.5	11.0	11.0



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222	0.0022	PPN222J(K)630V	14.5	6.5	11.0	11.0
272	0.0027	PPN272J(K)630V	14.5	7.5	12.0	11.0
332	0.0033	PPN332J(K)630V	14.5	7.5	12.0	11.0
392	0.0039	PPN392J(K)630V	14.5	8.5	13.0	11.0
472	0.0047	PPN472J(K)630V	14.5	8.5	13.0	11.0
562	0.0056	PPN562J(K)630V	18.0	7.0	12.5	14.0
682	0.0068	PPN682J(K)630V	18.0	7.0	12.5	14.0
822	0.0082	PPN822J(K)630V	18.0	7.5	14.5	14.0
103	0.010	PPN103J(K)630V	18.0	7.5	14.5	14.0
123	0.012	PPN123J(K)630V	22.5	8.0	15.0	19.0
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333	0.033	PPN333J(K)630V	22.5	10.0	18.5	19.0
393	0.039	PPN393J(K)630V	22.5	11.0	19.0	19.0
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563	0.056	PPN563J(K)630V	29.0	11.0	19.0	24.0
683	0.068	PPN683J(K)630V	29.0	12.0	20.0	24.0
823	0.082	PPN823J(K)630V	29.0	12.0	22.0	24.0
104	0.10	PPN104J(K)630V	29.0	13.5	23.0	24.0
1000VDC						
102	0.001	PPN102J(K)1000V	14.5	6.0	10.0	11.0
122	0.0012	PPN122J(K)1000V	14.5	6.0	10.0	11.0
152	0.0015	PPN152J(K)1000V	14.5	6.0	10.0	11.0
182	0.0018	PPN182J(K)1000V	16.0	6.5	11.5	12.5
222	0.0022	PPN222J(K)1000V	16.0	6.5	11.5	12.5
272	0.0027	PPN272J(K)1000V	16.0	7.5	12.0	12.5
332	0.0033	PPN332J(K)1000V	16.0	7.5	12.0	12.5
392	0.0039	PPN392J(K)1000V	18.0	7.5	13.0	14.0
472	0.0047	PPN472J(K)1000V	18.0	7.5	13.0	14.0
562	0.0056	PPN562J(K)1000V	18.0	8.0	15.0	15.0
682	0.0068	PPN682J(K)1000V	18.0	8.0	15.0	15.0
822	0.0082	PPN822J(K)1000V	22.5	8.5	15.5	19.0
103	0.010	PPN103J(K)1000V	22.5	8.5	15.5	19.0
123	0.012	PPN123J(K)1000V	22.5	10.0	16.5	19.0
153	0.015	PPN153J(K)1000V	22.5	10.0	16.5	19.0
183	0.018	PPN183J(K)1000V	22.5	10.0	18.5	19.0
223	0.022	PPN223J(K)1000V	22.5	11.5	19.0	19.0
273	0.027	PPN273J(K)1000V	22.5	12.0	20.0	19.0
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104	0.10	PPN104J(K)1000V	34.0	15.0	25.0	29.0