

## Metalized Polypropylene (MPP) Film Capacitor

Metalized Polypropylene Film Capacitor is suitable for blocking, coupling, decoupling, filtering, bypass, timing, temperature control and ideal for use in telecommunication equipment, data processing equipment, industrial instruments, automatic control systems and other general electronic equipment, etc.

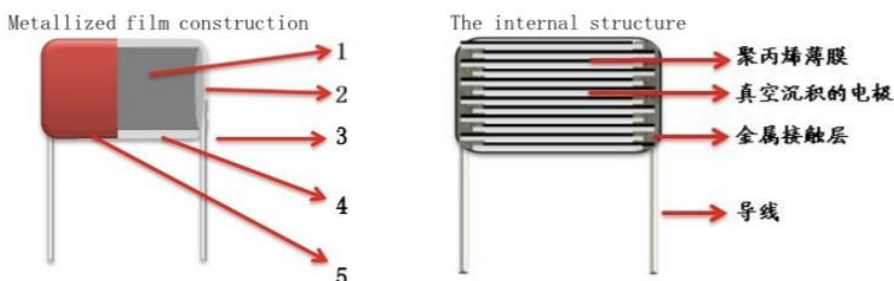


This Capacitor is wound with metalized polypropylene film dielectric, non-inductive construction, tinned copper wire leads, and flame-retardant epoxy resin coating. They have excellent features of self-healing and good flame retardant according to UL 94-V0.

### Features

1. Non induction construction
2. High moisture-resistance
3. Self-healing property
4. Flame retardant type (compliance with UL 94V-0)
5. Very small loss
6. Excellent capacitance and DF for frequency and temperature characteristics.
7. High insulation resistance

### Construction and main materials of products



NO	关键材料 Main Materials	材料规格 Specification	备注 Remark
1	金属化聚丙烯薄膜 Metallized polypropylene Film	MPPZAH or MPPA(4~12 μm)	...
2	锌锡层 Zn,Sn line	锌+锌锡合金 Zn or Zn and Sn alloy	...
3	导线 Terminal	镀锡铜包钢线(Φ0.6 or 0.8mm) CP(tinned copper wire leads)	允许偏差 ±0.05mm
4	内封装材料 Inside Coating Material	环氧树脂 Epoxy resin	UL94-V0
5	外封装材料 Outside Coating Material	环氧粉末 Epoxy power	UL94-V0

注：以上材料均符合环保要求

Note: All of the Materials are in compliance with the requirements of RoHS AND REACH.

## Electrical specifications

Item	Characteristic Requirement	Test Method and Condition
Operating temperature	-40°C~+105°C +85°C~+105°C (AC from 75°C), derating factor 1.35% per °C for R. V. (DC)	
Capacitance range	0.001uF ~10uF	1KHz, 1.0Vrms, 25°C
Capacitance tolerance	±2% (G), ±2.5% (H), ±3% (I), ±5% (J), ±10% (K)	1KHz, 1.0Vrms, 25°C
Rated voltage	100/160/250/275/400/630/1000V	
Dissipation factor	1KHz<0.10%	1KHz, 1.0Vrms, 25°C
Insulation resistance	C≤0.33uF; IR>3000MΩ C>0.33uF; IR>15000MΩ	100VDC, 60s, 25°C
Withstanding voltage between terminal	No permanent breakdown or flashover	1.6Ud(d.c) 60 sec. Cut off current 10mA, ARC=OFF Voltage rising time 5~10sec.

## Part Number System

**JMPP   104   J   0450   D   H   15   24**

**1                    2                    3                    4                    5                    6                    7                    8**

- JMPP:** Metalized Polypropylene (MPP) Film Capacitor
- Capacitance** Code: 104 means 100,000pF. 475 means 4,700,000pF. 106 means 10,000,000pF
- Tolerance:** ±2% (G), ±2.5% (H), ±3% (I), ±5% (J), ±10% (K)
- Rated Voltage:** 0450=450V; 0630=630V; 1200=1200V; 0250=250V; 2000=2000V
- Voltage Category:** D=DC; A=AC
- Lead type:** H=straight lead; K=inner kinked lead; N=outer kinked lead

代碼 Code	0	H	K	N	M
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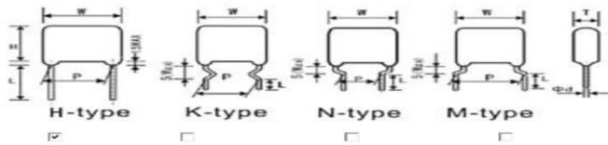
**O                    H                    K                    N                    M**

- Lead Pin pitch (mm):** 10 =10mm; 15=15mm; 20=20mm
- Lead length (mm):** 03=3.0mm; 06=6.0mm; 20=20.0mm; 24=24.0mm

## Manufacturer Part Number and Descriptions

Item	MFR P/N	Description
1	JMPP104J0400DH1024	MPP Film DC Cap 0.1uF 5% 400V P=10mm
2	JMPP224J0400DH1024	MPP Film DC Cap 0.22uF 5% 400V P=10mm
3	JMPP334J0400DH1024	MPP Film DC Cap 0.33uF 5% 400V P=10mm
4	JMPP474J0400DH1524	MPP Film DC Cap 0.47uF 5% 400V P=15mm
5	JMPP105J0400DH1524	MPP Film DC Cap 1uF 5% 400V P=15mm
6	JMPP222J0630DH1024	MPP Film DC Cap 0.0022uF 5% 630V P=10mm
7	JMPP473J0630DH1024	MPP Film DC Cap 0.047uF 5% 630V P=10mm
8	JMPP104J0630DH1024	MPP Film DC Cap 0.1uF 5% 630V P=10mm
9	JMPP224J0630DH1024	MPP Film DC Cap 0.22uF 5% 630V P=10mm
10	JMPP474J0630DH1524	MPP Film DC Cap 0.47uF 5% 630V P=15mm
11	JMPP105J0630DH1524	MPP Film DC Cap 1uF 5% 630V P=15mm
12	JMPP103J0400DH1024	MPP Film DC Cap 0.01uF 5% 400V P=10mm
13	JMPP103J0630DH1024	MPP Film DC Cap 0.01uF 5% 630V P=10mm
14	JMPP223J0400DH1024	MPP Film DC Cap 0.022uF 5% 400V P=10mm
15	JMPP223J0630DH1024	MPP Film DC Cap 0.022uF 5% 630V P=10mm
16	JMPP683J0400DH1024	MPP Film DC Cap 0.068uF 5% 400V P=10mm
17	JMPP683J0630DH1024	MPP Film DC Cap 0.068uF 5% 630V P=10mm
18	JMPP64J0400DH1524	MPP Film DC Cap 0.56uF 5% 400V P=15mm

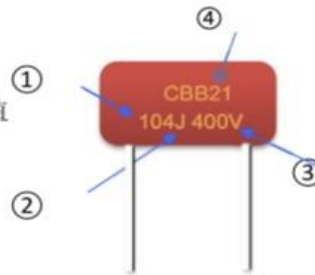
## Dimension Specifications



品名规格 Specification	外形尺寸 (单位: mm) Dimensions and Drawings					
	W±1	H±1	T±1	L±1	d±0.05	P±1
104J/400V	12.0	10.0	6.0	24.0	0.6	10.0
224J/400V	12.0	10.0	6.0	24.0	0.6	10.0
334J/400V	12.0	11.0	6.5	24.0	0.6	10.0
474J/400V	17.0	10.0	6.0	24.0	0.8	15.0
105J/400V	17.0	15.0	8.0	24.0	0.8	15.0
222J/630V	12.0	8.0	5.0	24.0	0.6	10.0
473J/630V	12.0	8.0	5.0	24.0	0.6	10.0
104J/630V	12.0	10.0	6.0	24.0	0.6	10.0
224J/630V	12.0	10.0	6.0	24.0	0.6	10.0
474J/630V	17.0	10.0	6.0	24.0	0.8	15.0
684J/630V	17.0	14.0	7.5	24.0	0.8	15.0
105J/630V	17.0	15.0	8.0	24.0	0.8	15.0

## Marking

- (1) 静电容量 Capacitance: (104J, 0.1  $\mu$ F)
- (2) 允许误差 Capacitance Tolerance: (J)  $\pm$ 5%的误差值
- (3) 额定电压 Rated Voltage: 400V
- (4) 产品类别 Product Class: CBB21



## TEMPERATURE CHARACTERISTICS

