

金属化聚丙烯膜电容器

Metallized Polypropylene Film Capacitors

■采用标准reference standards

GB10190(IEC384-16)

■结构

介质: 聚丙烯膜

电极: 金属真空蒸发层

封装: 阻燃粉末环氧树脂, 符合UL94 V-0

■典型应用

高频、直流、交流及脉冲大电流场合如: 灯具、电源等

■特点

体积小, 有良好自愈性能。高频损耗小, 温升低
高冲击强度。高频交流条件下有良好的耐电压性能

■structure

Dielectric: Polypropylene film

Electrode: metal vacuum evaporation layer

Encapsulation: inflame retardant power epoxy resin, conforming to UL94 V-0

■typical application

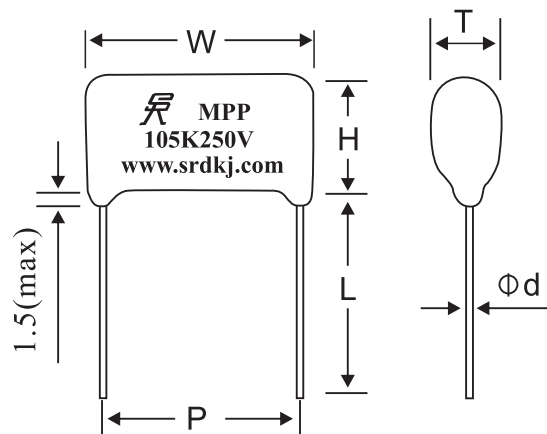
high frequency, direct current, alternating current or large pulse current occasion For example: lamps, power sources etc.

■characteristics:

Small volume with good self-healing property, low dissipation at high frequency, low temperature rise,
high dielectric strength. Good property to withstand voltage at high frequency in alternating current occasion

■性能参数

脚距 Pitch mm	10	15	20	22.5	27.5	31.5
引线直径 Pin Diameter mm	0.5/0.6	0.6/0.8	0.8			
dv/dt(V/μs)	500	300	300	100		



■符合ROHS标准 In compliance with ROHS

■技术参数 Technical Parameters

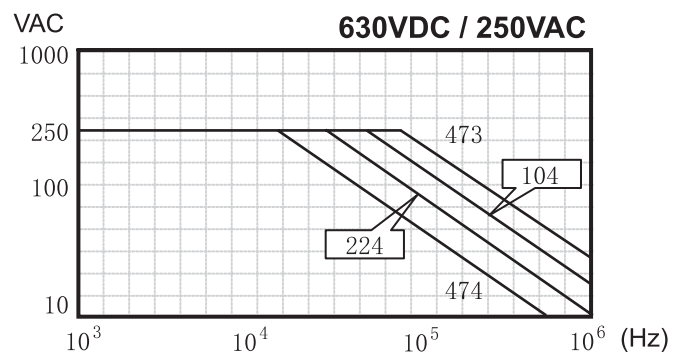
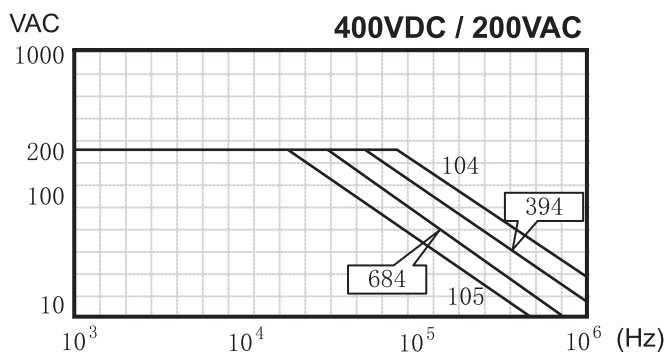
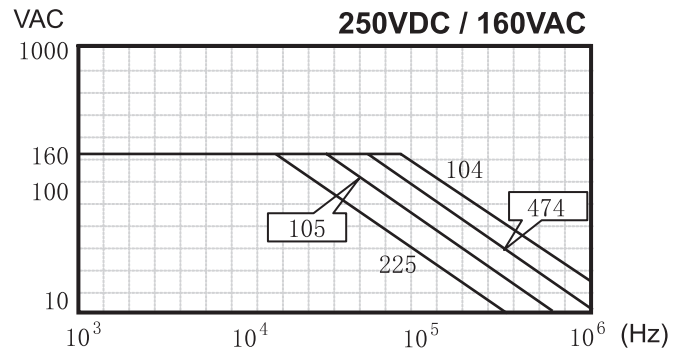
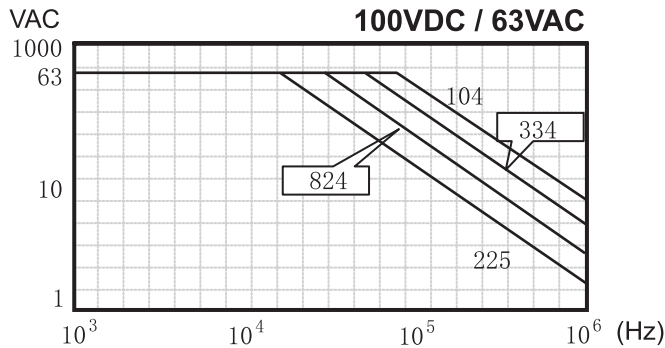
气候条件 Climatic Conditions	-40~+85(105)°C/56d	容量误差allowable tolerance	J- ±5% K- ±10% M- ±20%
容量范围 Capacitance Range	0.0015 μF-4.7 μF		
容量误差 Capacitance Tolerance	J- ±5% K- ±10% M- ±20%		
额定电压 Rated Voltage	100V、250VDC、400VDC、450VDC、630VDC、1000VDC		
耐电压 Voltage Proof	端子与端子 Terminal to terminal: 1.6UR 5S 端子与外壳 Terminal to shell: 2000VAC 5S	无击穿或飞弧 No breakdown or electric arcing	
损耗角 Dissipation Factor	≤0.0010 1KHZ	20°C; 1V测试电压 20°C; 1V testing voltage	
绝缘电阻或时间常数 Insulation resistance or time constant	CR ≤ 0.33 μF IR ≥ 25000MΩ CR > 0.33 μF IR ≥ 7500S(MΩ. μF)	UR ≤ 500V, 充电电压charging voltage 100V UR > 500V, 充电电压charging voltage 500V 20°C: 充电1min测试后测得 testing time: 1 min later after charging	
稳态湿热 Climatic Category	温度: 40 ± 2°C 湿度: 93%RH 持续时间: 56天 Temperature: 40 ± 2°C Humidity: 93%RH Time of duration: 56days	无可见损伤, 标志清晰 IR: ≥ 额定值的50% 电容量: ΔC/C ≤ 5% 损耗角 (1KHZ): 增加 ≤ 0.0020 no visible damage, mark is clear IR = 50% of rated Capacitance ΔC/C ≤ 5% Loss angle(1KHz): increased ≤ 0.002	
耐久性试验 Endurance Test	+85(105)°C, 连续1000小时 施加电压: 1.25 × 额定电压 +85(105)°C, 1000h Applied voltage : 1.25* rated voltage	绝缘电阻IR: ≥ 额定值的50% 电容量: ΔC/C ≤ 10% Insulation Resistance: ≥ 50% of Rated Capacitance: ΔC/C ≤ 10%	

注: 可根据客户使用定制容量产品, 具体参数依据承认书资料为准。

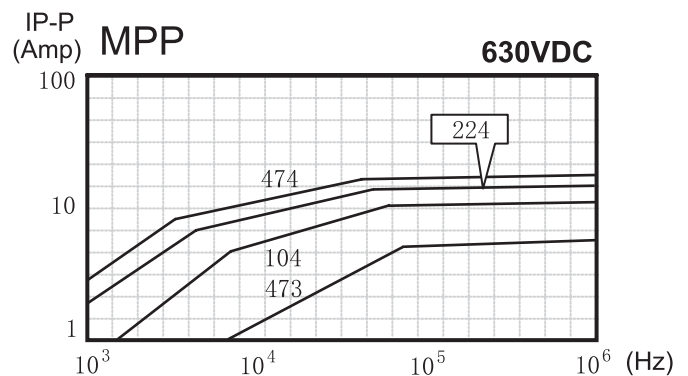
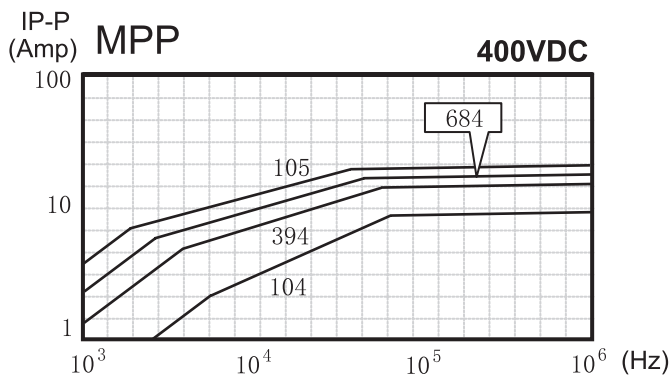
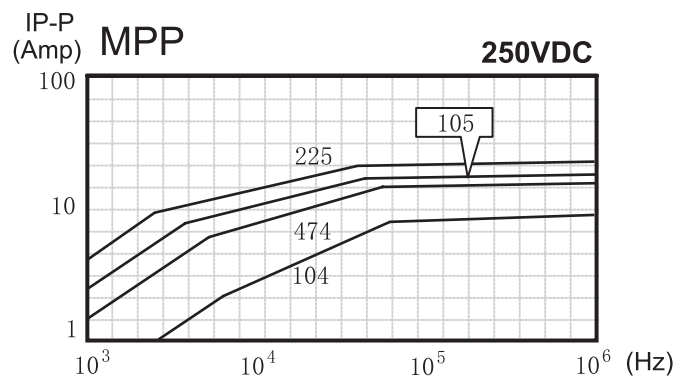
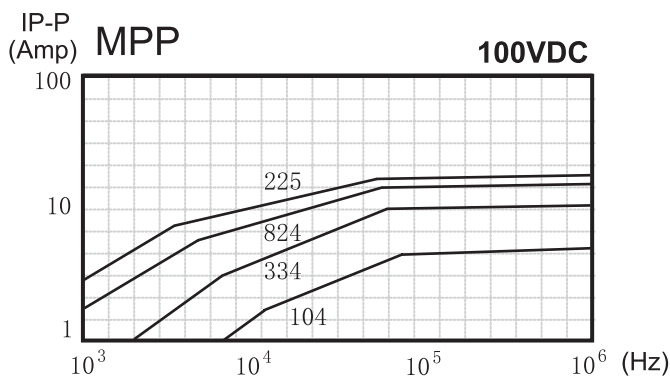
Note: Products capacitance can be customized, specific parameter according to documents.

金属化聚丙烯膜电容器 Metallized Polypropylene Film Capacitors

容许交流电压 VS 频率曲线图
Permissible AC Voltage VS Frequency Curves



容许脉冲电流 VS 频率曲线图
Permissible AC Voltage VS Frequency Curves



金属化聚丙烯膜电容器

Metallized Polypropylene Film Capacitors

■ CBB21(MPP)电容器规格尺寸表 Specification and Dimension Table

容量 Cap. μF	成品编码 Part No.	外形尺寸(mm) Dimension				容量 Cap. μF	成品编码 Part No.	外形尺寸(mm) Dimension			
		Wmax	Tmax	Hmax	P±1			Wmax	Tmax	Hmax	P±1
100VDC/250VDC											
0.0033	MPP332K2130510###**	13.0	5.0	10.0	10.0	0.0039	MPP332K2130510###**	13.0	5.5	10.5	10.0
0.0047	MPP472K2130611###**	13.0	6.0	11.0	10.0	0.0056	MPP562K2130510###**	13.0	5.5	10.5	10.0
0.0068	MPP682K2130510###**	13.0	5.5	10.5	10.0	0.0082	MPP822K2130408###**	13.0	4.0	8.0	10.0
0.01	MPP103K2130409###**	13.0	4.5	9.0	10.0	0.012	MPP123K2130510###**	13.0	5.0	10.0	10.0
0.015	MPP153K2130510###**	13.0	5.5	10.5	10.0	0.018	MPP183K2130611###**	13.0	6.0	11.0	10.0
0.022	MPP223K2130510###**	13.0	4.5	9.0	10.0	0.027	MPP273K2130409###**	13.0	5.0	9.5	10.0
0.033	MPP333K2130510###**	13.0	5.0	9.5	10.0	0.039	MPP393K2130509###**	13.0	5.0	9.5	10.0
0.047	MPP473K2130408###**	13.0	4.0	8.0	10.0	0.47	MPP474K2190815###**	19.0	8.0	15.0	15.0
0.056	MPP563K2103408###**	13.0	4.0	8.5	10.0	0.56	MPP564K2190916###**	19.0	5.8	15.5	15.0
0.068	MPP683K2130509###**	13.0	4.5	8.5	10.0	0.68	MPP684K2191017###**	19.0	10.0	17.0	15.0
0.082	MPP823K2130509###**	13.0	5.0	9.5	10.0	0.82	MPP824K2191118###**	19.0	11.0	18.0	15.0
0.1	MPP104K2130510###**	13.0	5.5	10.5	10.0	1.0	MPP105K2191219###**	19.0	12.5	19.0	15.0
0.12	MPP124K2130611###**	13.0	6.0	11.0	10.0	1.2	MPP125K2241019###**	24.0	10.5	18.5	20.0
0.15	MPP154K2130712###**	13.0	6.5	11.5	10.0	1.5	MPP155K2241220###**	24.0	11.5	20.0	20.0
0.18	MPP184K2130713###**	13.0	7.5	13.0	10.0	1.8	MPP185K2241321###**	24.0	13.0	21.5	20.0
0.22	MPP224K2130815###**	13.0	8.0	14.5	10.0	1.5	MPP155K2311018###**	31.0	9.5	18.0	27.5
0.27	MPP274K2130815###**	13.0	8.5	15.5	10.0	1.8	MPP185K2311119###**	31.0	11.0	19.0	27.5
0.1	MPP104K2190409###**	19.0	4.0	8.5	15.0	2.2	MPP225K2351220###**	35.0	11.5	20.0	31.5
0.12	MPP124K2190409###**	19.0	4.0	9.0	15.0	2.7	MPP275K2351321###**	35.0	13.0	21.5	31.5
0.15	MPP154K2190510###**	19.0	4.5	9.5	15.0	3.3	MPP335K2351523###**	35.0	14.5	23.0	31.5
0.18	MPP184K2190510###**	19.0	5.0	10.5	15.0	3.9	MPP395K2351625###**	35.0	16.0	24.5	31.5
0.22	MPP224K2190611###**	19.0	5.5	10.5	15.0	4.7	MPP475K2351826###**	35.0	17.0	26.0	31.5
0.27	MPP274K2190612###**	19.0	5.5	12.5	15.0	5.6	MPP565K2351826###**	35.0	18.0	26.0	31.5
0.33	MPP334K2190613###**	19.0	6.5	13.0	15.0	6.8	MPP685K2351929###**	35.0	19.0	29.0	31.5
0.39	MPP394K2190714###**	19.0	7.0	14.0	15.0	8.2	MPP825K2351929###**	35.0	19.0	29.0	31.5
400VDC											
0.0033	MPP332K4130510###**	13.0	5.0	10.0	10.0	0.0039	MPP392K4130510###**	13.0	5.5	10.5	10.0
0.0047	MPP472K4130611###**	13.0	6.0	11.0	10.0	0.0056	MPP562K4130510###**	13.0	5.5	10.5	10.0
0.0068	MPP682K4130510###**	13.0	5.5	10.0	10.0	0.0082	MPP822K4130408###**	13.0	4.0	8.0	10.0
0.01	MPP103K4130409###**	13.0	4.5	9.0	10.0	0.012	MPP123K4130510###**	13.0	5.0	10.0	10.0
0.015	MPP153K4130510###**	13.0	5.5	10.5	10.0	0.018	MPP183K4130611###**	13.0	6.0	11.0	10.0
0.022	MPP223K4130409###**	13.0	4.5	9.0	10.0	0.027	MPP273K4130409###**	13.0	5.0	9.5	10.0
0.033	MPP333K4130409###**	13.0	5.0	9.5	10.0	0.039	MPP393K4130509###**	13.0	5.0	9.5	10.0
0.047	MPP473K4130408###**	13.0	4.0	8.0	10.0	0.47	MPP474K4190815###**	19.0	8.0	15.0	15.0
0.056	MPP563K4130408###**	13.0	4.0	8.5	10.0	0.56	MPP564K4190916###**	19.0	8.5	15.5	15.0
0.068	MPP683K4130509###**	13.0	4.5	8.5	10.0	0.68	MPP684K4191017###**	19.0	10.0	17.0	15.0
0.082	MPP823K4130509###**	13.0	5.0	9.5	10.0	0.82	MPP824K4191118###**	19.0	11.0	18.0	15.0
0.1	MPP104K4130612###**	13.0	6.5	12.0	10.0	0.82	MPP824K4241019###**	24.0	10.5	18.5	20.0
0.12	MPP124K4130713###**	13.0	7.5	13.0	10.0	1.0	MPP105K4241120###**	24.0	11.5	20.0	20.0
0.15	MPP154K4190611###**	19.0	6.0	11.0	15.0	1.2	MPP125K4241321###**	24.0	12.5	21.0	20.0
0.18	MPP184K4190612###**	19.0	6.5	11.5	15.0	1.5	MPP155K4241423###**	24.0	14.5	22.5	20.0
0.22	MPP224K4190713###**	19.0	7.0	13.5	15.0	1.2	MPP125K4311119###**	31.0	10.5	19.0	27.5

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0.27	MPP274K4190815###**	19.0	8.0	15.0	15.0	1.5	MPP155K4311121###**	31.0	11.5	21.0	27.5
0.33	MPP334K4190815###**	19.0	8.5	15.5	15.0	1.8	MPP185K4311222###**	31.0	12.5	22.5	27.5
0.39	MPP394K4191016###**	19.0	9.5	16.5	15.0	2.2	MPP225K4311424###**	31.0	14.0	24.0	27.5
0.47	MPP474K4191117###**	19.0	10.5	17.5	15.0	2.7	MPP275K4311624###**	31.0	15.5	25.5	27.5
0.56	MPP564K4191119###**	19.0	11.0	19.0	15.0	3.0	MPP305K4351524###**	35.0	15.5	23.5	31.0
0.33	MPP334K4240613###**	24.0	6.5	13.0	20.0	3.3	MPP335K4351625###**	35.0	16.0	24.5	31.0
0.39	MPP394K4240714###**	24.0	7.0	14.0	20.0	4.0	MPP405K4351826###**	35.0	18.0	26.5	31.0
0.47	MPP474K4240815###**	24.0	8.0	15.0	20.0	4.7	MPP475K4351826###**	35.0	18.0	26.5	31.0
0.56	MPP564K4240915###**	24.0	8.5	15.5	20.0	5.6	MPP565K4352028###**	35.0	20.0	28.0	31.0
0.68	MPP684K4241017###**	24.0	10.0	17.0	20.0	6.8	MPP685K4352028###**	35.0	20.0	28.0	31.0
630VDC											
0.0033	MPP332K6130510###**	13.0	5.0	10.0	10.0	0.082	MPP823K6190916###**	19.0	9.0	16.0	15.0
0.0039	MPP392K6130510###**	13.0	5.5	10.5	10.0	0.1	MPP104K6190613###**	19.0	6.0	13.0	15.0
0.0047	MPP472K6130511###**	13.0	5.5	11.0	10.0	0.12	MPP124K6190713###**	19.0	7.0	13.5	15.0
0.0056	MPP562K6130510###**	13.0	5.5	10.5	10.0	0.15	MPP154K6190815###**	19.0	8.0	15.0	15.0
0.0068	MPP682K6130510###**	13.0	5.5	10.5	10.0	0.18	MPP184K6190815###**	19.0	8.5	15.5	15.0
0.0082	MPP822K6130408###**	13.0	4.0	8.0	10.0	0.22	MPP224K6240714###**	24.0	7.0	14.0	20.0
0.01	MPP103K6130409###**	13.0	4.5	9.0	10.0	0.27	MPP274K6240815###**	24.0	8.0	15.0	20.0
0.012	MPP123K6130510###**	13.0	5.0	10.0	10.0	0.33	MPP334K6240916###**	24.0	9.0	16.0	20.0
0.015	MPP153K6130510###**	13.0	5.5	10.5	10.0	0.36	MPP364K6241017###**	24.0	10.0	17.0	20.0
0.018	MPP183K6130611###**	13.0	6.0	11.0	10.0	0.39	MPP394K6241017###**	24.0	10.5	17.5	20.0
0.022	MPP223K6130409###**	13.0	4.5	9.0	10.0	0.47	MPP474K6241119###**	24.0	11.0	19.0	20.0
0.027	MPP273K6130509###**	13.0	5.0	9.5	10.0	0.56	MPP564K6241220###**	24.0	12.0	20.0	20.0
0.033	MPP333K6130509###**	13.0	5.0	9.5	10.0	0.68	MPP684K6241321###**	24.0	13.5	21.5	20.0
0.039	MPP393K6130509###**	13.0	5.0	9.5	10.0	0.82	MPP824K6241422###**	24.0	14.5	22.5	20.0
0.047	MPP473K6130510###**	13.0	5.5	10.5	10.0	1.0	MPP105K6311322###**	31.0	13.5	22.5	27.5
0.056	MPP563K6130611###**	13.0	6.0	11.0	10.0	1.2	MPP125K6311523###**	31.0	15.0	23.0	27.5
0.068	MPP683K6130611###**	13.0	6.5	11.0	10.0	1.5	MPP155K6351523###**	35.0	15.0	23.0	31.5
0.082	MPP823K6130713###**	13.0	7.5	12.5	10.0	1.8	MPP185K6351624###**	35.0	16.5	25.0	31.5
0.033	MPP333K6190611###**	19.0	6.0	11.0	15.0	2.0	MPP205K6351725###**	35.0	17.5	26.0	31.5
1000VDC											
0.0015	MPP152KA130510###**	13.0	5.0	10.0	10.0	0.015	MPP153KA130612###**	13.0	6.0	12.0	10.0
0.0018	MPP182KA130510###**	13.0	5.0	10.0	10.0	0.018	MPP183KA130612###**	13.0	6.0	12.0	10.0
0.0022	MPP222KA130510###**	13.0	5.0	10.0	10.0	0.022	MPP223KA130612###**	13.0	6.0	12.0	10.0
0.0027	MPP272KA130510###**	13.0	5.0	10.0	10.0	0.027	MPP273KA130612###**	13.0	6.0	12.0	10.0
0.0033	MPP332KA130510###**	13.0	5.0	10.0	10.0	0.033	MPP333KA130612###**	13.0	6.0	12.0	10.0
0.0047	MPP472KA130510###**	13.0	5.0	10.0	10.0	0.039	MPP393KA190611###**	19.0	7.0	11.0	15.0
0.0056	MPP562KA130510###**	13.0	5.0	10.0	10.0	0.047	MPP473KA190712###**	19.0	7.5	12.0	15.0
0.0068	MPP682KA130510###**	13.0	5.0	10.0	10.0	0.056	MPP563KA190813###**	19.0	8.0	13.0	15.0
0.0082	MPP822KA130510###**	13.0	5.0	10.0	10.0	0.068	MPP683KA190814###**	19.0	8.5	13.5	15.0
0.01	MPP103KA130510###**	13.0	5.0	10.0	10.0	0.082	MPP823KA190915###**	19.0	10.0	16.0	15.0
0.012	MPP123KA130612###**	13.0	6.0	12.0	10.0	0.1	MPP104KA191117###**	19.0	11.0	17.0	15.0