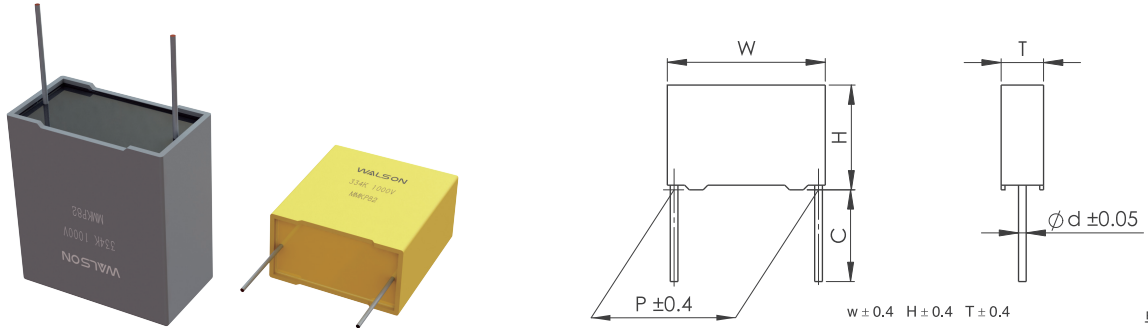


# MMKP82 塑料外壳双面金属化聚丙烯膜电容器

Double sided metallized polypropylene film capacitor (Box-type)

## 外形图 Outline Drawing



单位 Unit: mm

## 特点 Features

- 双面金属化电极，聚丙烯膜介质
- 损耗小，内部温升小
- 负电容量温度系数
- 优异的阻燃性能
- Doublesided metallized electrode, polypropylene film dielectric
- Low loss and small inherent temperature rise
- Negative temperature coefficient of capacitance
- Excellent flame resistant abilities

## 主要用途 Typical Applications

- 广泛应用于高压高频脉冲电路中
- 电子镇流器和节能灯中
- 吸收和SCR整流电路
- Widely used in high voltage, high frequency and pulse circuit
- Electronic ballasts and compact lamps
- Snubber and SCR commutating circuits

## 技术要求 Specifications

引用标准 Reference Standard	GB/T 10190 ( IEC 60384-16 )					
气候类别 Climatic Category	40/105/56					
额定温度 Rated Temperature	85°C or $U_R$ (dc); 75°C for $U_R$ (ac)					
工作温度范围 Operating Temperature Range	-40°C ~ 105°C					
额定电压 Rated Voltage	250V, 400V, 630V, 1000V, 1600V, 2000V					
电容量范围 Capacitance Range	0.00022 $\mu$ F ~ 3.9 $\mu$ F					
电容量偏差 Capacitance Tolerance	$\pm 2\%$ (G) , $\pm 3\%$ (H) , $\pm 5\%$ (J) , $\pm 10\%$ (K) , $\pm 20\%$ (M)					
耐电压 Voltage Proof	1.6 $U_R$ ( 5s )					
损耗角正切 Dissipation Factor	$\leq 10 \times 10^{-4}$ ( 1kHz, 20°C )					
绝缘电阻 Insulation Resistance	$R \geq 15000 M\Omega$ , $C_N \leq 0.33 \mu F$ $RC_N \geq 5000$ , $C_N > 0.33 \mu F$ ( 20°C, 100V, 1min )					
最大脉冲爬升速率 Maximum Pulse Rise Time (dV/dt): 若实际工作电压U比额定电压 $U_R$ 低, 电容器可工作在更高的dV/dt场合, 这样dV/dt允许值应为右表值乘以 $U_R/U$ 。 If the working voltage (U) is lower than the rated voltage ( $U_R$ ), the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with $U_R/U$ .	$U_R$ (V)	dV/dt ( V/ $\mu$ s )				
			P=7.5	P=10.0	P=15.0	P=22.5
	250	1200	1000	550	250	200
	400	1800	1500	900	500	300
	630	3200	3200	2500	1500	900
	1000	6000	6000	3300	2100	1000
	1600	---	---	6000	3000	2000
2000	---	---	10000	5000	2200	

■ 外形尺寸 Dimensions (mm)

250Vdc (180Vac)					
C <sub>N</sub> (μF)	W	H	T	P	d
0.0068	10.5	9.0	4.0	7.5	0.6
0.0082	10.5	9.0	4.0	7.5	0.6
0.010	10.5	9.0	4.0	7.5	0.6
0.012	10.5	9.0	4.0	7.5	0.6
0.015	10.5	9.0	4.0	7.5	0.6
0.018	10.5	9.0	4.0	7.5	0.6
0.022	10.5	9.0	4.0	7.5	0.6
0.027	10.5	11.0	5.0	7.5	0.6
0.033	10.5	11.0	5.0	7.5	0.6
0.039	10.5	12.0	6.0	7.5	0.6
0.047	10.5	12.0	6.0	7.5	0.6
0.027	13.0	9.0	4.0	10.0	0.6
0.033	13.0	9.0	4.0	10.0	0.6
0.039	13.0	9.0	4.0	10.0	0.6
0.047	13.0	11.0	5.0	10.0	0.6
0.056	13.0	11.0	5.0	10.0	0.6
0.068	13.0	12.0	6.0	10.0	0.6
0.082	13.0	12.0	6.0	10.0	0.6
0.068	17.5	11.0	5.0	15.0	0.8
0.082	17.5	11.0	5.0	15.0	0.8
0.10	17.5	11.0	5.0	15.0	0.8
0.12	17.5	12.0	6.0	15.0	0.8
0.15	17.5	12.0	6.0	15.0	0.8
0.18	17.5	13.5	7.5	15.0	0.8
0.22	17.5	13.5	7.5	15.0	0.8
0.27	17.5	14.5	8.5	15.0	0.8
0.33	17.5	16.0	10.0	15.0	0.8
0.39	17.5	16.0	10.0	15.0	0.8
0.22	26.5	15.0	6.0	22.5	0.8
0.27	26.5	15.0	6.0	22.5	0.8
0.33	26.5	15.0	6.0	22.5	0.8
0.39	26.5	16.0	7.0	22.5	0.8
0.47	26.5	16.0	7.0	22.5	0.8
0.56	26.5	17.0	8.5	22.5	0.8
0.68	26.5	18.5	10.0	22.5	0.8
0.82	26.5	18.5	10.0	22.5	0.8
1.0	26.5	22.0	12.0	22.5	0.8
0.82	32.0	18.0	9.0	27.5	0.8
1.0	32.0	20.0	11.0	27.5	0.8
1.2	32.0	20.0	11.0	27.5	0.8
1.5	32.0	22.0	13.0	27.5	0.8
1.8	32.0	24.5	15.0	27.5	0.8
2.2	32.0	24.5	15.0	27.5	0.8
2.7	32.0	33.0	18.0	27.5	0.8
3.3	32.0	33.0	18.0	27.5	0.8
3.9	32.0	33.0	18.0	27.5	0.8

400Vdc (250Vac)					
C <sub>N</sub> (μF)	W	H	T	P	d
0.0027	10.5	9.0	4.0	7.5	0.6
0.0033	10.5	9.0	4.0	7.5	0.6
0.0039	10.5	9.0	4.0	7.5	0.6
0.0047	10.5	9.0	4.0	7.5	0.6
0.0056	10.5	9.0	4.0	7.5	0.6
0.0068	10.5	9.0	4.0	7.5	0.6
0.0082	10.5	9.0	4.0	7.5	0.6
0.010	10.5	9.0	4.0	7.5	0.6
0.012	10.5	9.0	4.0	7.5	0.6
0.015	10.5	11.0	5.0	7.5	0.6
0.018	10.5	11.0	5.0	7.5	0.6
0.022	10.5	12.0	6.0	7.5	0.6
0.027	10.5	12.0	6.0	7.5	0.6
0.010	13.0	9.0	4.0	10.0	0.6
0.012	13.0	9.0	4.0	10.0	0.6
0.015	13.0	9.0	4.0	10.0	0.6
0.018	13.0	9.0	4.0	10.0	0.6
0.022	13.0	9.0	4.0	10.0	0.6
0.027	13.0	11.0	5.0	10.0	0.6
0.033	13.0	11.0	5.0	10.0	0.6
0.039	13.0	12.0	6.0	10.0	0.6
0.047	13.0	12.0	6.0	10.0	0.6
0.033	17.5	11.0	5.0	15.0	0.8
0.039	17.5	11.0	5.0	15.0	0.8
0.047	17.5	11.0	5.0	15.0	0.8
0.056	17.5	11.0	5.0	15.0	0.8
0.068	17.5	12.0	6.0	15.0	0.8
0.082	17.5	12.0	6.0	15.0	0.8
0.10	17.5	13.5	7.5	15.0	0.8
0.12	17.5	13.5	7.5	15.0	0.8
0.15	17.5	14.5	8.5	15.0	0.8
0.18	17.5	16.0	10.0	15.0	0.8
0.22	17.5	16.0	10.0	15.0	0.8
0.27	17.5	19.0	11.0	15.0	0.8
0.12	26.5	15.0	6.0	22.5	0.8
0.15	26.5	15.0	6.0	22.5	0.8
0.18	26.5	15.0	6.0	22.5	0.8
0.22	26.5	16.0	7.0	22.5	0.8
0.27	26.5	17.0	8.5	22.5	0.8
0.33	26.5	17.0	8.5	22.5	0.8
0.39	26.5	18.5	10.0	22.5	0.8
0.47	26.5	18.5	10.0	22.5	0.8
0.56	26.5	22.0	12.0	22.5	0.8
0.68	26.5	22.0	12.0	22.5	0.8
0.39	32.0	18.0	9.0	27.5	0.8
0.47	32.0	18.0	9.0	27.5	0.8
0.56	32.0	20.0	11.0	27.5	0.8
0.68	32.0	20.0	11.0	27.5	0.8
0.82	32.0	22.0	13.0	27.5	0.8
1.0	32.0	24.5	15.0	27.5	0.8
1.2	32.0	24.5	15.0	27.5	0.8
1.5	32.0	33.0	18.0	27.5	0.8
1.8	32.0	33.0	18.0	27.5	0.8

■ 外形尺寸 Dimensions (mm)

630Vdc (400Vac)					
C <sub>N</sub> (μF)	W	H	T	P	d
0.00068	10.5	9.0	4.0	7.5	0.6
0.00082	10.5	9.0	4.0	7.5	0.6
0.0010	10.5	9.0	4.0	7.5	0.6
0.0012	10.5	9.0	4.0	7.5	0.6
0.0015	10.5	9.0	4.0	7.5	0.6
0.0018	10.5	9.0	4.0	7.5	0.6
0.0022	10.5	9.0	4.0	7.5	0.6
0.0027	10.5	9.0	4.0	7.5	0.6
0.0033	10.5	9.0	4.0	7.5	0.6
0.0039	10.5	9.0	4.0	7.5	0.6
0.0047	10.5	9.0	4.0	7.5	0.6
0.0056	10.5	9.0	4.0	7.5	0.6
0.0068	10.5	11.0	5.0	7.5	0.6
0.0082	10.5	11.0	5.0	7.5	0.6
0.010	10.5	12.0	6.0	7.5	0.6
0.012	10.5	12.0	6.0	7.5	0.6
0.0039	13.0	9.0	4.0	10.0	0.6
0.0047	13.0	9.0	4.0	10.0	0.6
0.0056	13.0	9.0	4.0	10.0	0.6
0.0068	13.0	9.0	4.0	10.0	0.6
0.0082	13.0	9.0	4.0	10.0	0.6
0.010	13.0	11.0	5.0	10.0	0.6
0.012	13.0	11.0	5.0	10.0	0.6
0.015	13.0	12.0	6.0	10.0	0.6
0.018	13.0	12.0	6.0	10.0	0.6
0.010	18.0	11.0	5.0	15.0	0.8
0.012	18.0	11.0	5.0	15.0	0.8
0.015	18.0	11.0	5.0	15.0	0.8
0.018	18.0	11.0	5.0	15.0	0.8
0.022	18.0	11.0	5.0	15.0	0.8
0.027	18.0	11.0	5.0	15.0	0.8
0.033	18.0	12.0	6.0	15.0	0.8

630Vdc (400Vac)					
C <sub>N</sub> (μF)	W	H	T	P	d
0.039	18.0	12.0	6.0	15.0	0.8
0.047	18.0	12.0	6.0	15.0	0.8
0.056	18.0	13.5	7.5	15.0	0.8
0.068	18.0	14.5	8.5	15.0	0.8
0.082	18.0	14.5	8.5	15.0	0.8
0.10	18.0	16.0	10.0	15.0	0.8
0.12	18.0	19.0	11.0	15.0	0.8
0.047	26.5	15.0	6.0	22.5	0.8
0.056	26.5	15.0	6.0	22.5	0.8
0.068	26.5	15.0	6.0	22.5	0.8
0.082	26.5	15.0	6.0	22.5	0.8
0.10	26.5	15.0	6.0	22.5	0.8
0.12	26.5	16.0	7.0	22.5	0.8
0.15	26.5	17.0	8.5	22.5	0.8
0.18	26.5	17.0	8.5	22.5	0.8
0.22	26.5	18.5	10.0	22.5	0.8
0.27	26.5	22.0	12.0	22.5	0.8
0.33	26.5	22.0	12.0	22.5	0.8
0.39	26.5	22.0	12.0	22.5	0.8
0.15	32.0	18.0	9.0	27.5	0.8
0.18	32.0	18.0	9.0	27.5	0.8
0.22	32.0	18.0	9.0	27.5	0.8
0.27	32.0	18.0	9.0	27.5	0.8
0.33	32.0	20.0	11.0	27.5	0.8
0.39	32.0	20.0	11.0	27.5	0.8
0.47	32.0	22.0	13.0	27.5	0.8
0.56	32.0	22.0	13.0	27.5	0.8
0.68	32.0	24.5	15.0	27.5	0.8
0.82	32.0	28.0	14.0	27.5	0.8
1.0	32.0	33.0	18.0	27.5	0.8
1.2	32.0	33.0	18.0	27.5	0.8

## ■ 外形尺寸 Dimensions (mm)

1000Vdc (600Vac)					
C <sub>N</sub> (μF)	W	H	T	P	d
0.00047	10.5	9.0	4.0	7.5	0.6
0.00056	10.5	9.0	4.0	7.5	0.6
0.00068	10.5	9.0	4.0	7.5	0.6
0.00082	10.5	9.0	4.0	7.5	0.6
0.0010	10.5	9.0	4.0	7.5	0.6
0.0012	10.5	11.0	5.0	7.5	0.6
0.0015	10.5	11.0	5.0	7.5	0.6
0.0018	10.5	11.0	5.0	7.5	0.6
0.0022	10.5	11.0	5.0	7.5	0.6
0.0027	10.5	12.0	6.0	7.5	0.6
0.0033	10.5	12.0	6.0	7.5	0.6
0.0010	13.0	9.0	4.0	10.0	0.6
0.0012	13.0	9.0	4.0	10.0	0.6
0.0015	13.0	9.0	4.0	10.0	0.6
0.0018	13.0	9.0	4.0	10.0	0.6
0.0022	13.0	9.0	4.0	10.0	0.6
0.0027	13.0	9.0	4.0	10.0	0.6
0.0033	13.0	9.0	4.0	10.0	0.6
0.0039	13.0	11.0	5.0	10.0	0.6
0.0047	13.0	11.0	5.0	10.0	0.6
0.0056	13.0	12.0	6.0	10.0	0.6
0.0068	13.0	12.0	6.0	10.0	0.6
0.0082	18.0	11.0	5.0	15.0	0.8
0.010	18.0	11.0	5.0	15.0	0.8
0.012	18.0	11.0	5.0	15.0	0.8
0.015	18.0	11.0	5.0	15.0	0.8
0.018	18.0	13.5	7.5	15.0	0.8
0.022	18.0	13.5	7.5	15.0	0.8
0.027	18.0	14.5	8.5	15.0	0.8
0.033	18.0	14.5	8.5	15.0	0.8
0.039	18.0	16.0	10.0	15.0	0.8
0.047	18.0	19.0	11.0	15.0	0.8
0.027	26.5	15.0	6.0	22.5	0.8
0.033	26.5	15.0	6.0	22.5	0.8
0.039	26.5	15.0	6.0	22.5	0.8
0.047	26.5	16.0	7.0	22.5	0.8
0.056	26.5	16.0	7.0	22.5	0.8
0.068	26.5	17.0	8.5	22.5	0.8
0.082	26.5	18.5	10.0	22.5	0.8
0.10	26.5	18.5	10.0	22.5	0.8
0.12	26.5	22.0	12.0	22.5	0.8
0.15	26.5	22.0	12.0	22.5	0.8
0.10	32.0	18.0	9.0	27.5	0.8
0.12	32.0	20.0	11.0	27.5	0.8
0.15	32.0	20.0	11.0	27.5	0.8
0.18	32.0	22.0	13.0	27.5	0.8
0.22	32.0	22.0	13.0	27.5	0.8
0.27	32.0	24.5	15.0	27.5	0.8
0.33	32.0	28.0	14.0	27.5	0.8
0.39	32.0	33.0	18.0	27.5	0.8
0.47	32.0	33.0	18.0	27.5	0.8

1600Vdc (650Vac)					
C <sub>N</sub> (μF)	W	H	T	P	d
0.00068	18.0	11.0	5.0	15.0	0.8
0.00082	18.0	11.0	5.0	15.0	0.8
0.0010	18.0	11.0	5.0	15.0	0.8
0.0012	18.0	11.0	5.0	15.0	0.8
0.0015	18.0	11.0	5.0	15.0	0.8
0.0018	18.0	11.0	5.0	15.0	0.8
0.0022	18.0	11.0	5.0	15.0	0.8
0.0027	18.0	11.0	5.0	15.0	0.8
0.0033	18.0	11.0	5.0	15.0	0.8
0.0039	18.0	11.0	5.0	15.0	0.8
0.0047	18.0	11.0	5.0	15.0	0.8
0.0056	18.0	11.0	5.0	15.0	0.8
0.0068	18.0	11.0	5.0	15.0	0.8
0.0082	18.0	12.0	6.0	15.0	0.8
0.010	18.0	12.0	6.0	15.0	0.8
0.012	18.0	13.5	7.5	15.0	0.8
0.015	18.0	13.5	7.5	15.0	0.8
0.018	18.0	14.5	8.5	15.0	0.8
0.022	18.0	14.5	8.5	15.0	0.8
0.027	18.0	16.0	10.0	15.0	0.8
0.033	18.0	19.0	11.0	15.0	0.8
0.015	26.5	15.0	6.0	22.5	0.8
0.018	26.5	15.0	6.0	22.5	0.8
0.022	26.5	15.0	6.0	22.5	0.8
0.027	26.5	15.0	6.0	22.5	0.8
0.033	26.5	16.0	7.0	22.5	0.8
0.039	26.5	17.0	8.5	22.5	0.8
0.047	26.5	18.5	10.0	22.5	0.8
0.056	26.5	18.5	10.0	22.5	0.8
0.068	26.5	22.0	12.0	22.5	0.8
0.082	26.5	22.0	12.0	22.5	0.8
0.039	32.0	18.0	9.0	27.5	0.8
0.047	32.0	18.0	9.0	27.5	0.8
0.056	32.0	18.0	9.0	27.5	0.8
0.068	32.0	18.0	9.0	27.5	0.8
0.082	32.0	20.0	11.0	27.5	0.8
0.10	32.0	20.0	11.0	27.5	0.8
0.12	32.0	22.0	13.0	27.5	0.8
0.15	32.0	24.5	15.0	27.5	0.8
0.18	32.0	24.5	15.0	27.5	0.8
0.22	32.0	33.0	18.0	27.5	0.8
0.27	32.0	33.0	18.0	27.5	0.8
0.33	32.0	33.0	18.0	27.5	0.8

注：上表中未包含的产品规格可根据用户要求进行设计和制造

Note: Product specifications not included in this table can be designed and manufactured according to user requirements

2000Vdc (700Vac)					
C <sub>N</sub> (μF)	W	H	T	P	d
0.00022	18.0	11.0	5.0	15.0	0.8
0.00027	18.0	11.0	5.0	15.0	0.8
0.00033	18.0	11.0	5.0	15.0	0.8
0.00039	18.0	11.0	5.0	15.0	0.8
0.00047	18.0	11.0	5.0	15.0	0.8
0.00056	18.0	11.0	5.0	15.0	0.8
0.00068	18.0	11.0	5.0	15.0	0.8
0.00082	18.0	11.0	5.0	15.0	0.8
0.0010	18.0	11.0	5.0	15.0	0.8
0.0012	18.0	11.0	5.0	15.0	0.8
0.0015	18.0	11.0	5.0	15.0	0.8
0.0018	18.0	11.0	5.0	15.0	0.8
0.0022	18.0	11.0	5.0	15.0	0.8
0.0027	18.0	11.0	5.0	15.0	0.8
0.0033	18.0	12.0	6.0	15.0	0.8
0.0039	18.0	12.0	6.0	15.0	0.8
0.0047	18.0	12.0	6.0	15.0	0.8
0.0056	18.0	13.5	7.5	15.0	0.8
0.0068	18.0	13.5	7.5	15.0	0.8
0.0082	18.0	14.5	8.5	15.0	0.8
0.010	18.0	16.0	10.0	15.0	0.8
0.012	18.0	16.0	10.0	15.0	0.8
0.015	18.0	19.0	11.0	15.0	0.8
0.0010	26.5	15.0	6.0	22.5	0.8
0.0012	26.5	15.0	6.0	22.5	0.8
0.0015	26.5	15.0	6.0	22.5	0.8
0.0018	26.5	15.0	6.0	22.5	0.8
0.0022	26.5	15.0	6.0	22.5	0.8
0.0027	26.5	15.0	6.0	22.5	0.8
0.0033	26.5	15.0	6.0	22.5	0.8
0.0039	26.5	15.0	6.0	22.5	0.8
0.0047	26.5	15.0	6.0	22.5	0.8
0.0056	26.5	15.0	6.0	22.5	0.8
0.0068	26.5	15.0	6.0	22.5	0.8
0.0082	26.5	15.0	6.0	22.5	0.8
0.010	26.5	15.0	6.0	22.5	0.8
0.012	26.5	15.0	6.0	22.5	0.8
0.015	26.5	16.0	7.0	22.5	0.8
0.018	26.5	16.0	7.0	22.5	0.8
0.022	26.5	17.0	8.5	22.5	0.8
0.027	26.5	18.5	10.0	22.5	0.8
0.033	26.5	18.5	10.0	22.5	0.8
0.039	26.5	22.0	12.0	22.5	0.8
0.047	26.5	22.0	12.0	22.5	0.8
0.022	32.0	18.0	9.0	27.5	0.8
0.027	32.0	18.0	9.0	27.5	0.8
0.033	32.0	18.0	9.0	27.5	0.8
0.039	32.0	20.0	11.0	27.5	0.8
0.047	32.0	20.0	11.0	27.5	0.8
0.056	32.0	22.0	13.0	27.5	0.8
0.068	32.0	22.0	13.0	27.5	0.8
0.082	32.0	24.5	15.0	27.5	0.8
0.10	32.0	28.0	14.0	27.5	0.8
0.12	32.0	33.0	18.0	27.5	0.8
0.15	32.0	33.0	18.0	27.5	0.8