



Guang Zhou Nan Cai Electronic CO.,LTD.
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規格承認書

(SPECIFICATION FOR APPROVAL)

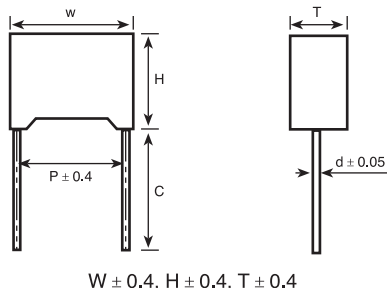
File No.: Q/BH .TS16949.13TECH1303

Product Name: Double sided metallized polypropylene film capacitor(Box-type)
Product Type: C84 (MMKP84)
Product Code: C84
Customer:
Customer Code:
Issue Date: (V3.0)

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



■ 特点

- 双面金属化聚丙烯膜
- 损耗小, 内部温升小
- 负电容量温度系数
- 优异的阻燃性能

■ 主要用途

- 高压高频脉冲电路中
- 电子照明(汽车头灯、镇流器)

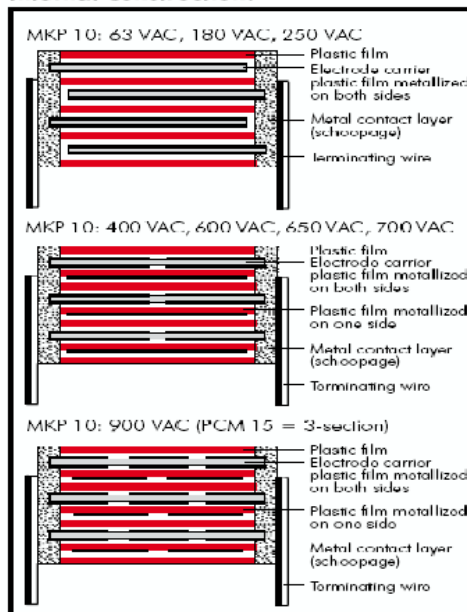
■ Features

- Doublesided metallized polypropylene film
- Low loss and small inherent temperature rise
- Negative temperature coefficient of capacitance
- Excellent active and passive flame resistant circuit

■ Typical Applications

- pulse applications with high. AC. voltage and HIGH current
- electronic lighting(i.e. car headlamp and lighting ballast)

Internal construction:



■ 技术要求 Specifications

引用标准 Reference Standard	GB/T 14579 (IEC 60384-17)					
气候类别 Climatic Category	40/105/56					
额定温度 Rated Temperature	85℃					
工作温度 Operating Temperature Range	-40℃~105℃ (+85℃ to +105℃: decreasing factor 1.25% per ℃ for U_R (dc)) (+75℃ to +105℃: decreasing factor 1.35% per ℃ for U_R (ac))					
额定电压 Rated Voltage	250Vac(630Vdc), 300Vac(800Vdc) 400Vac(1 000Vdc), 500Vac(1 600Vdc) 700Vac(2 000Vdc), 900Vac(2 500Vdc)					
电容量范围 Capacitance Range	0.00022μF~0.12μF					
电容量偏差 Capacitance Tolerance	± 2%(G), ± 3%(H), ± 3.5%(C), ± 5%(J), ± 10%(K), ± 20%(M)					
耐电压 Voltage Proof	1.6 U_R (5s)					
损耗角正切 Dissipation Factor	≤ 0.0010 (1kHz, 20℃)					
绝缘电阻 Insulation Resistance	≥ 100 000MΩ (20℃, 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/μs)				
			P=10.0	P=15.0	P=22.5	P=27.5
		250(630Vdc)	3 000	1 100	--	--
		300(800Vdc)	--	2 500	1 500	--
		400(1 000Vdc)	--	3 500	2 100	--
		500(1 600Vdc)	--	5 000	3 000	2 000
		700(2 000Vdc)	--	8 000	5 000	2 200
	900(2 500Vdc)	--	--	7 000	--	



C84
MMKP84 series

产品编码说明 Part number system

■ 18位产品代码如下:

The 18 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
C	8	4															

第1~3位	型号代码 C84=MMKP84	Digit 1 to 3	Series code C84=MMKP84
第4~5位	交流额定电压 E2=250V Q1=300V G2=400V H2=500V V1=700V X1=900V	Digit 4 to 5	AC rated voltage E2=250V Q1=300V G2=400V H2=500V V1=700V X1=900V
第6~8位	标称容量 举例: 103=10 x 10 ³ pF=0.01μF	Digit 6 to 8	Rated capacitance value For example: 103=10 x 10 ³ pF=0.01μF
第9位	容量偏差 G= ± 2%, H= ± 3%, J= ± 5% K= ± 10%, M= ± 20%	Digit 9	Capacitance tolerance G= ± 2%, H= ± 3%, J= ± 5% K= ± 10%, M= ± 20%
第10位	引线脚距 P 4=10.0mm 6=15.0mm 9=22.5mm B=27.5mm	Digit 10	Pitch 4=10.0mm 6=15.0mm 9=22.5mm B=27.5mm
第11位	内部特征码	Digit 11	Internal use
第12~15位	引线加工和包装代码	Digit 12 to 15	Lead form and packaging code
第16~18位	内部特征码	Digit 16 to 18	Internal use

■ Table1 引线加工和包装代码 Lead form and packaging code

第12位 Digit 12		第13位 Digit 13		第14位 Digit 14		第15位 Digit 15	
代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation	代码 Code	说明 explanation
A	弹带包装 ammo-pack	4 6	F=10.0mm F=15.0mm	0	表示直脚 straight	5	P3=25.4mm,H=18.5mm (For pitch=10/15mm) (Detail parameter refer to pag 17)
C	直脚 straight lead "C" in the figure above	代码 Code	说明 explanation	0 引线长度偏差 ±0.5mm或标准长度 Length tolerance ± 0.5mm Or standard length			
		00	标准的引线长度(18mm~26mm) standard lead length				
		45	引线长度 4.5mm lead length 4.5mm				



C84
MMKP84 series

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■ 外形尺寸 Dimensions(mm)

250Vac(630Vdc)						
C _R (μF)	W	H	T	P	d	Part number
0.010	13.0	9.0	4.0	10.0	0.6	C84E2103-40****+++
0.012	13.0	9.0	4.0	10.0	0.6	C84E2123-40****+++
0.015	13.0	11.0	5.0	10.0	0.6	C84E2153-40****+++
0.018	13.0	12.0	6.0	10.0	0.6	C84E2183-40****+++
0.022	13.0	12.0	6.0	10.0	0.6	C84E2223-40****+++
0.027	17.5	12.0	6.0	15.0	0.8	C84E2273-60****+++
0.033	17.5	12.0	6.0	15.0	0.8	C84E2333-60****+++
0.039	17.5	12.0	6.0	15.0	0.8	C84E2393-60****+++
0.047	17.5	13.5	7.5	15.0	0.8	C84E2473-60****+++
0.056	17.5	13.5	7.5	15.0	0.8	C84E2563-60****+++
0.068	17.5	14.5	8.5	15.0	0.8	C84E2683-60****+++
0.082	17.5	16.0	10.0	15.0	0.8	C84E2823-60****+++
0.10	17.5	16.0	10.0	15.0	0.8	C84E2104-60****+++

300Vac(800Vdc)						
C _R (μF)	W	H	T	P	d	Part number
0.010	17.5	11.0	5.0	15.0	0.8	C84Q1103-60****+++
0.012	17.5	11.0	5.0	15.0	0.8	C84Q1123-60****+++
0.015	17.5	11.0	5.0	15.0	0.8	C84Q1153-60****+++
0.018	17.5	11.0	5.0	15.0	0.8	C84Q1183-60****+++
0.022	17.5	12.0	6.0	15.0	0.8	C84Q1223-60****+++
0.027	17.5	12.0	6.0	15.0	0.8	C84Q1273-60****+++
0.033	17.5	13.5	7.5	15.0	0.8	C84Q1333-60****+++
0.039	17.5	13.5	7.5	15.0	0.8	C84Q1393-60****+++
0.047	17.5	14.5	8.5	15.0	0.8	C84Q1473-60****+++
0.056	17.5	16.0	10.0	15.0	0.8	C84Q1563-60****+++
0.068	17.5	16.0	10.0	15.0	0.8	C84Q1683-60****+++
0.056	26.5	15.0	6.0	22.5	0.8	C84Q1563-90****+++
0.068	26.5	16.0	7.0	22.5	0.8	C84Q1683-90****+++
0.082	26.5	17.0	8.5	22.5	0.8	C84Q1823-90****+++
0.10	26.5	17.0	8.5	22.5	0.8	C84Q1104-90****+++

400Vac(1 000Vdc)						
C _R (μF)	W	H	T	P	d	Part number
0.0056	17.5	11.0	5.0	15.0	0.8	C84G2562-60****+++
0.0068	17.5	11.0	5.0	15.0	0.8	C84G2682-60****+++
0.0082	17.5	11.0	5.0	15.0	0.8	C84G2822-60****+++
0.010	17.5	12.0	6.0	15.0	0.8	C84G2103-60****+++
0.012	17.5	12.0	6.0	15.0	0.8	C84G2123-60****+++
0.015	17.5	13.5	7.5	15.0	0.8	C84G2153-60****+++
0.018	17.5	13.5	7.5	15.0	0.8	C84G2183-60****+++
0.022	17.5	14.5	8.5	15.0	0.8	C84G2223-60****+++
0.027	17.5	16.0	10.0	15.0	0.8	C84G2273-60****+++
0.033	17.5	16.0	10.0	15.0	0.8	C84G2333-60****+++
0.027	26.5	15.0	6.0	22.5	0.8	C84G2273-90****+++
0.033	26.5	16.0	7.0	22.5	0.8	C84G2333-90****+++
0.039	26.5	16.0	7.0	22.5	0.8	C84G2393-90****+++
0.047	26.5	17.0	8.5	22.5	0.8	C84G2473-90****+++
0.056	26.5	17.0	8.5	22.5	0.8	C84G2563-90****+++
0.068	26.5	18.5	10.0	22.5	0.8	C84G2683-90****+++
0.082	26.5	18.5	10.0	22.5	0.8	C84G2823-90****+++
0.10	26.5	22.0	12.0	22.5	0.8	C84G2104-90****+++

500Vac(1 600Vdc)						
C _R (μF)	W	H	T	P	d	Part number
0.0010	17.5	11.0	5.0	15.0	0.8	C84H2102-60****+++
0.0012	17.5	11.0	5.0	15.0	0.8	C84H2122-60****+++
0.0015	17.5	11.0	5.0	15.0	0.8	C84H2152-60****+++
0.0018	17.5	11.0	5.0	15.0	0.8	C84H2182-60****+++
0.0022	17.5	11.0	5.0	15.0	0.8	C84H2222-60****+++
0.0027	17.5	11.0	5.0	15.0	0.8	C84H2272-60****+++
0.0033	17.5	11.0	5.0	15.0	0.8	C84H2332-60****+++
0.0039	17.5	11.0	5.0	15.0	0.8	C84H2392-60****+++
0.0047	17.5	11.0	5.0	15.0	0.8	C84H2472-60****+++
0.0056	17.5	11.0	5.0	15.0	0.8	C84H2562-60****+++
0.0068	17.5	12.0	6.0	15.0	0.8	C84H2682-60****+++
0.0082	17.5	12.0	6.0	15.0	0.8	C84H2822-60****+++
0.010	17.5	13.5	7.5	15.0	0.8	C84H2103-60****+++
0.012	17.5	13.5	7.5	15.0	0.8	C84H2123-60****+++
0.015	17.5	14.5	8.5	15.0	0.8	C84H2153-60****+++
0.018	17.5	16.0	10.0	15.0	0.8	C84H2183-60****+++
0.022	17.5	16.0	10.0	15.0	0.8	C84H2223-60****+++
0.018	26.5	15.0	6.0	22.5	0.8	C84H2183-90****+++
0.022	26.5	16.0	7.0	22.5	0.8	C84H2223-90****+++
0.027	26.5	16.0	7.0	22.5	0.8	C84H2273-90****+++
0.033	26.5	17.0	8.5	22.5	0.8	C84H2333-90****+++
0.039	26.5	18.5	10.0	22.5	0.8	C84H2393-90****+++
0.047	26.5	18.5	10.0	22.5	0.8	C84H2473-90****+++
0.056	26.5	22.0	12.0	22.5	0.8	C84H2563-90****+++
0.068	32.0	20.0	11.0	27.5	0.8	C84H2683-B0****+++
0.082	32.0	20.0	11.0	27.5	0.8	C84H2823-B0****+++
0.10	32.0	22.0	13.0	27.5	0.8	C84H2104-B0****+++

700Vac(2 000Vdc)						
C _R (μF)	W	H	T	P	d	Part number
0.00051	17.5	11.0	5.0	15.0	0.8	C84V1511-60****+++
0.00068	17.5	11.0	5.0	15.0	0.8	C84V1681-60****+++
0.0010	17.5	11.0	5.0	15.0	0.8	C84V1102-60****+++
0.0012	17.5	11.0	5.0	15.0	0.8	C84V1122-60****+++
0.0015	17.5	11.0	5.0	15.0	0.8	C84V1152-60****+++
0.0018	17.5	11.0	5.0	15.0	0.8	C84V1182-60****+++
0.0022	17.5	11.0	5.0	15.0	0.8	C84V1222-60****+++
0.0027	17.5	12.0	6.0	15.0	0.8	C84V1272-60****+++
0.0033	17.5	12.0	6.0	15.0	0.8	C84V1332-60****+++
0.0039	17.5	13.5	7.5	15.0	0.8	C84V1392-60****+++
0.0047	17.5	13.5	7.5	15.0	0.8	C84V1472-60****+++
0.0056	17.5	14.5	8.5	15.0	0.8	C84V1562-60****+++
0.0068	17.5	14.5	8.5	15.0	0.8	C84V1682-60****+++
0.0082	17.5	16.0	10.0	15.0	0.8	C84V1822-60****+++
0.010	17.5	16.0	10.0	15.0	0.8	C84V1103-60****+++
0.0068	26.5	15.0	6.0	22.5	0.8	C84V1682-90****+++
0.0082	26.5	15.0	6.0	22.5	0.8	C84V1822-90****+++
0.010	26.5	15.0	6.0	22.5	0.8	C84V1103-90****+++
0.012	26.5	16.0	7.0	22.5	0.8	C84V1123-90****+++
0.015	26.5	17.0	8.5	22.5	0.8	C84V1153-90****+++
0.018	26.5	18.5	10.0	22.5	0.8	C84V1183-90****+++
0.022	26.5	18.5	10.0	22.5	0.8	C84V1223-90****+++
0.027	26.5	22.0	12.0	22.5	0.8	C84V1273-90****+++
0.033	26.5	22.0	12.0	22.5	0.8	C84V1333-90****+++
0.018	32.0	18.0	9.0	27.5	0.8	C84V1183-B0****+++
0.022	32.0	18.0	9.0	27.5	0.8	C84V1223-B0****+++
0.027	32.0	18.0	9.0	27.5	0.8	C84V1273-B0****+++
0.033	32.0	20.0	11.0	27.5	0.8	C84V1333-B0****+++
0.039	32.0	20.0	11.0	27.5	0.8	C84V1393-B0****+++
0.047	32.0	22.0	13.0	27.5	0.8	C84V1473-B0****+++
0.056	32.0	22.0	13.0	27.5	0.8	C84V1563-B0****+++
0.068	32.0	24.5	15.0	27.5	0.8	C84V1683-B0****+++
0.082	32.0	28.0	14.0	27.5	0.8	C84V1823-B0****+++
0.10	32.0	33.0	18.0	27.5	0.8	C84V1104-B0****+++
0.12	32.0	33.0	18.0	27.5	0.8	C84V1124-B0****+++

900Vac(2 500Vdc)						
C _R (μF)	W	H	T	P	d	Part number
0.0010	26.5	15.0	6.0	22.5	0.8	C84X1102-90****+++
0.0012	26.5	15.0	6.0	22.5	0.8	C84X1122-90****+++
0.0015	26.5	15.0	6.0	22.5	0.8	C84X1152-90****+++
0.0018	26.5	15.0	6.0	22.5	0.8	C84X1182-90****+++
0.0022	26.5	15.0	6.0	22.5	0.8	C84X1222-90****+++
0.0027	26.5	15.0	6.0	22.5	0.8	C84X1272-90****+++
0.0033	26.5	15.0	6.0	22.5	0.8	C84X1332-90****+++
0.0039	26.5	15.0	6.0	22.5	0.8	C84X1392-90****+++
0.0047	26.5	15.0	6.0	22.5	0.8	C84X1472-90****+++
0.0056	26.5	15.0	6.0	22.5	0.8	C84X1562-90****+++
0.0068	26.5	16.0	7.0	22.5	0.8	C84X1682-90****+++
0.0082	26.5	16.0	7.0	22.5	0.8	C84X1822-90****+++
0.010	26.5	17.0	8.5	22.5	0.8	C84X1103-90****+++
0.012	26.5	18.5	10.0	22.5	0.8	C84X1123-90****+++
0.015	26.5	18.5	10.0	22.5	0.8	C84X1153-90****+++
0.018	26.5	22.0	12.0	22.5	0.8	C84X1183-90****+++
0.022	26.5	22.0	12.0	22.5	0.8	C84X1223-90****+++

备注: 1. “-”表示容量偏差。“-”=capacitance tolerance code, M=±20%,K=±10%,J=±5%,H=±3%,G=±2%
2. “****”表示引线加工和包装代码(见table 1)。“****”=lead form and packaging code(refer to table 1)