

METALLIZED POLYESTER FILM CAPACITOR (BOX-TYPE)

金属化聚酯膜电容器 (盒装)

概述 Overview

应用领域

- 应用于旁路，隔直，耦合，退耦
- 脉冲，逻辑，定时，振荡电路
- 低电压场合抗干扰

参考标准

- GB/T 7332 (IEC 60384-2)

气候类别

- 55/105/56

结构

- 金属化聚酯膜，无感卷绕结构
- 塑料外壳 (UL94 V-0)，阻燃性环氧填充

特点

- 可靠性高

Application

- By-passing, blocking, coupling, decoupling,
- Pulse, logic, timing, oscillator circuits
- Interference suppression in low voltage application

Reference standards

- GB/T 7332 (IEC 60384-2)

Climatic Category

- 55/105/56

Construction

- Metallized polyester film, non-inductive structure
- Plastic case(UL94 V-0),Epoxy resin sealing

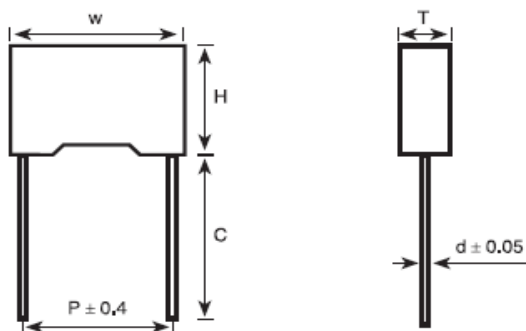
Features

- High reliability

技术参数 Technical data

额定电压 Rated Voltage	63V,100V, 250V, 400V, 630V	
电容量范围 Capacitance Range	0.0033 μ F~33.0 μ F	
额定温度 Rated Voltage	85 $^{\circ}$ C	
工作温度范围 Operating Temperature Range	-55 $^{\circ}$ C~105 $^{\circ}$ C (+85 $^{\circ}$ Cto+105 $^{\circ}$ C: decreasing factor 1.25%per $^{\circ}$ Cfor V_R (dc))	
电容器允许偏差 Capacitance Tolerance	\pm 5% (J), \pm 10% (K), \pm 20% (M)	
耐电压 Voltage Proof	1.6 V_R (5S)	
介质损耗角正切 Dissipation factor tg δ	\leq 0.01 (20 $^{\circ}$ C, 1kHz)	
绝缘电阻 Insulation resistance	$U_R \leq 100V$	$\geq 15000M\Omega$, $C_R \leq 0.33\mu F$ (20 $^{\circ}$ C, 10V, 1min) $\geq 5000S$, $C_R > 0.33\mu F$ (20 $^{\circ}$ C, 10V, 1min)
	$U_R > 100V$	$\geq 30000M\Omega$, $C_R \leq 0.33\mu F$ (20 $^{\circ}$ C, 100V, min) $\geq 10000S$, $C_R > 0.33\mu F$ (20 $^{\circ}$ C, 100V, min)

尺寸图 SIZE



W ± 0.4, H ± 0.4, T ± 0.4

外型尺寸 Dimensions (mm)

63Vdc						
容量 (μF)	W (max)	H (max)	T (max)	P	d	产品代码 Part number
0.47	10.5	8.5	3.5	7.5	0.5	K131J474-5I++
0.68	10.5	8.5	3.5	7.5	0.5	K131J684-5I++
1.0	10.5	11.0	5.0	7.5	0.6	K131J105-6I++
1.5	10.5	12.0	6.0	7.5	0.6	K131J155-6I++
1.8	10.5	12.0	6.0	7.5	0.6	K131J185-6I++
0.10	13.0	9.0	4.0	10.0	0.6	K131J104-6N++
0.15	13.0	9.0	4.0	10.0	0.6	K131J154-6N++
0.22	13.0	9.0	4.0	10.0	0.6	K131J224-6N++
0.33	13.0	9.0	4.0	10.0	0.6	K131J334-6N++
0.47	13.0	9.0	4.0	10.0	0.6	K131J474-6N++
0.68	13.0	9.0	4.0	10.0	0.6	K131J684-6N++
1.0	13.0	9.0	4.0	10.0	0.6	K131J105-6N++
1.5	13.0	11.0	5.0	10.0	0.6	K131J155-6N++
1.8	13.0	12.0	6.0	10.0	0.6	K131J185-6N++
2.2	13.0	12.0	6.0	10.0	0.6	K131J225-6N++
0.68	17.5	11.0	5.0	15.0	0.8	K131J684-8Q++
1.0	17.5	11.0	5.0	15.0	0.8	K131J105-8Q++
1.5	17.5	11.0	5.0	15.0	0.8	K131J155-8Q++
1.8	17.5	11.0	5.0	15.0	0.8	K131J185-8Q++
2.2	17.5	11.0	5.0	15.0	0.8	K131J225-8Q++
3.3	17.5	12.0	6.0	15.0	0.8	K131J335-8Q++
4.7	17.5	13.5	7.5	15.0	0.8	K131J475-8Q++
6.8	17.5	14.5	8.5	15.0	0.8	K131J685-8Q++
10.0	17.5	16.0	10.0	15.0	0.8	K131J106-8Q++
3.3	26.5	16.0	7.0	22.5	0.8	K131J335-8U++
4.7	26.5	16.0	7.0	22.5	0.8	K131J475-8U++
6.8	26.5	16.0	7.0	22.5	0.8	K131J685-8U++

63Vdc						
容量 (μF)	W (max)	H (max)	T (max)	P	d	产品代码 Part number
10.0	26.5	17.0	8.5	22.5	0.8	K131J106-8U++
15.0	26.5	20.0	11.0	22.5	0.8	K131J156-8U++
4.7	32.0	18.0	9.0	27.5	0.8	K131J475-8W++
6.8	32.0	18.0	9.0	27.5	0.8	K131J685-8W++
10.0	32.0	18.0	9.0	27.5	0.8	K131J106-8W++
15.0	32.0	18.0	9.0	27.5	0.8	K131J156-8W++
22.0	32.0	22.0	13.0	27.5	0.8	K131J226-8W++
33.0	32.0	24.5	15.0	27.5	0.8	K131J336-8W++

外型尺寸 Dimensions (mm)

100Vdc						
容量 (μF)	W (max)	H (max)	T (max)	P	d	产品代码 Part number
0.22	10.5	8.5	3.5	7.5	0.5	K132A224-5I++
0.33	10.5	9.0	4.0	7.5	0.5	K132A334-5I++
0.47	10.5	9.0	4.0	7.5	0.5	K132A474-5I++
0.68	10.5	11.0	5.0	7.5	0.6	K132A684-6I++
1.0	10.5	12.0	6.0	7.5	0.6	K132A105-6I++
0.10	13.0	9.0	4.0	10.0	0.6	K132A104-6N++
0.15	13.0	9.0	4.0	10.0	0.6	K132A154-6N++
0.22	13.0	9.0	4.0	10.0	0.6	K132A224-6N++
0.33	13.0	9.0	4.0	10.0	0.6	K132A334-6N++
0.47	13.0	9.0	4.0	10.0	0.6	K132A474-6N++
0.68	13.0	9.0	4.0	10.0	0.6	K132A684-6N++
1.0	13.0	11.0	5.0	10.0	0.6	K132A105-6N++
1.5	13.0	12.0	6.0	10.0	0.6	K132A155-6N++
0.33	17.5	11.0	5.0	15.0	0.8	K132A334-8Q++
0.47	17.5	11.0	5.0	15.0	0.8	K132A474-8Q++
0.68	17.5	11.0	5.0	15.0	0.8	K132A684-8Q++
1.0	17.5	11.0	5.0	15.0	0.8	K132A105-8Q++
1.5	17.5	12.0	6.0	15.0	0.8	K132A155-8Q++
1.8	17.5	12.0	6.0	15.0	0.8	K132A185-8Q++
2.2	17.5	12.0	6.0	15.0	0.8	K132A225-8Q++
3.3	17.5	13.5	7.5	15.0	0.8	K132A335-8Q++
4.7	17.5	14.5	8.5	15.0	0.8	K132A475-8Q++
1.5	26.5	15.0	6.0	22.5	0.8	K132A155-8U++
1.8	26.5	15.0	6.0	22.5	0.8	K132A185-8U++
2.2	26.5	15.0	6.0	22.5	0.8	K132A225-8U++
3.3	26.5	15.0	6.0	22.5	0.8	K132A335-8U++
4.7	26.5	16.0	7.0	22.5	0.8	K132A475-8U++
6.8	26.5	18.5	10.0	22.5	0.8	K132A685-8U++
10.0	26.5	22.0	12.0	22.5	0.8	K132A106-8U++
4.7	32.0	18.0	9.0	27.5	0.8	K132A475-8W++
6.8	32.0	18.0	9.0	27.5	0.8	K132A685-8W++
10.0	32.0	20.0	11.0	27.5	0.8	K132A106-8W++

250Vdc						
容量 (μF)	W (max)	H (max)	T (max)	P	d	产品代码 Part number
0.068	10.5	8.5	3.5	7.5	0.5	K132E683-5I++
0.10	10.5	8.5	3.5	7.5	0.5	K132E104-5I++
0.15	10.5	9.0	4.0	7.5	0.6	K132E154-6I++
0.22	10.5	11.0	5.0	7.5	0.6	K132E224-6I++
0.27	10.5	12.0	6.0	7.5	0.6	K132E274-6I++
0.33	10.5	12.0	6.0	7.5	0.6	K132E334-6I++
0.033	13.0	9.0	4.0	10.0	0.6	K132E333-6N++
0.047	13.0	9.0	4.0	10.0	0.6	K132E473-6N++
0.068	13.0	9.0	4.0	10.0	0.6	K132E683-6N++
0.10	13.0	9.0	4.0	10.0	0.6	K132E104-6N++
0.15	13.0	9.0	4.0	10.0	0.6	K132E154-6N++
0.22	13.0	11.0	5.0	10.0	0.6	K132E224-6N++
0.33	13.0	11.0	5.0	10.0	0.6	K132E334-6N++
0.47	13.0	12.0	6.0	10.0	0.6	K132E474-6N++
0.10	17.5	11.0	5.0	15.0	0.8	K132E104-8Q++
0.15	17.5	11.0	5.0	15.0	0.8	K132E154-8Q++
0.22	17.5	11.0	5.0	15.0	0.8	K132E224-8Q++
0.33	17.5	11.0	5.0	15.0	0.8	K132E334-8Q++
0.47	17.5	11.0	5.0	15.0	0.8	K132E474-8Q++
0.68	17.5	12.0	6.0	15.0	0.8	K132E684-8Q++
1.0	17.5	13.5	7.5	15.0	0.8	K132E105-8Q++
1.5	17.5	14.5	8.5	15.0	0.8	K132E155-8Q++
0.47	26.5	15.0	6.0	22.5	0.8	K132E474-8U++
0.68	26.5	15.0	6.0	22.5	0.8	K132E684-8U++
1.0	26.5	15.0	6.0	22.5	0.8	K132E105-8U++
1.5	26.5	16.0	7.0	22.5	0.8	K132E155-8U++
1.8	26.5	16.0	7.0	22.5	0.8	K132E185-8U++
2.2	26.5	17.0	8.5	22.5	0.8	K132E225-8U++
3.3	26.5	20.0	11.0	22.5	0.8	K132E335-8U++
1.5	32.0	18.0	9.0	27.5	0.8	K132E155-8W++
1.8	32.0	18.0	9.0	27.5	0.8	K132E185-8W++
2.2	32.0	18.0	9.0	27.5	0.8	K132E225-8W++
3.3	32.0	18.0	9.0	27.5	0.8	K132E335-8W++
4.7	32.0	20.0	11.0	27.5	0.8	K132E475-8W++
6.8	32.0	22.0	13.0	27.5	0.8	K132E685-8W++

外型尺寸 Dimensions (mm)

400Vdc						
容量 (μ F)	W (max)	H (max)	T (max)	P	d	产品代码 Part number
0.022	10.5	8.5	3.5	7.5	0.5	K132G223-5I++
0.033	10.5	8.5	3.5	7.5	0.5	K132G333-5I++
0.047	10.5	9.0	4.0	7.5	0.6	K132G473-5I++
0.068	10.5	11.0	5.0	7.5	0.6	K132G683-5I++
0.10	10.5	12.0	6.0	7.5	0.6	K132G104-5I++
0.010	10.5	9.0	4.0	10.0	0.6	K132G103-6N++
0.015	13.0	9.0	4.0	10.0	0.6	K132G153-6N++
0.022	13.0	9.0	4.0	10.0	0.6	K132G223-6N++
0.033	13.0	9.0	4.0	10.0	0.6	K132G333-6N++
0.047	13.0	9.0	4.0	10.0	0.6	K132G473-6N++
0.056	13.0	9.0	4.0	10.0	0.6	K132G563-6N++
0.068	13.0	11.0	5.0	10.0	0.6	K132G683-6N++
0.10	13.0	11.0	5.0	10.0	0.6	K132G104-6N++
0.15	13.0	12.0	6.0	10.0	0.6	K132G154-6N++
0.047	17.5	11.0	5.0	15.0	0.8	K132G473-8Q++
0.068	17.5	11.0	5.0	15.0	0.8	K132G683-8Q++
0.10	17.5	11.0	5.0	15.0	0.8	K132G104-8Q++
0.15	17.5	11.0	5.0	15.0	0.8	K132G154-8Q++
0.22	17.5	12.0	6.0	15.0	0.8	K132G224-8Q++
0.33	17.5	13.5	7.5	15.0	0.8	K132G334-8Q++
0.47	17.5	14.5	8.5	15.0	0.8	K132G474-8Q++
0.68	17.5	16.0	10.0	15.0	0.8	K132G684-8Q++
0.22	26.5	15.0	6.0	22.5	0.8	K132G224-8U++
0.33	26.5	15.0	6.0	22.5	0.8	K132G334-8U++
0.47	26.5	15.0	6.0	22.5	0.8	K132G474-8U++
0.68	26.5	16.0	7.0	22.5	0.8	K132G684-8U++
1.0	26.5	18.5	10.0	22.5	0.8	K132G105-8U++
1.5	26.5	22.0	12.0	22.5	0.8	K132G155-8U++
0.68	32.0	18.0	9.0	27.5	0.8	K132G684-8W++
1.0	32.0	18.0	9.0	27.5	0.8	K132G105-8W++
1.5	32.0	20.0	11.0	27.5	0.8	K132G155-8W++

630Vdc						
容量 (μ F)	W (max)	H (max)	T (max)	P	d	产品代码 Part number
0.0047	10.5	8.5	3.5	7.5	0.5	K132J472-5I++
0.0068	10.5	8.5	3.5	7.5	0.5	K132J682-5I++
0.010	10.5	8.5	3.5	7.5	0.5	K132J103-5I++
0.015	10.5	9.0	4.0	7.5	0.6	K132J153-6I++
0.022	10.5	11.0	5.0	7.5	0.6	K132J223-6I++
0.033	10.5	12.0	6.0	7.5	0.6	K132J333-6I++
0.0047	13.0	9.0	4.0	10.0	0.6	K132J472-6N++
0.0068	13.0	9.0	4.0	10.0	0.6	K132J682-6N++
0.010	13.0	9.0	4.0	10.0	0.6	K132J103-6N++
0.015	13.0	9.0	4.0	10.0	0.6	K132J153-6N++
0.022	13.0	9.0	4.0	10.0	0.6	K132J223-6N++
0.033	13.0	11.0	5.0	10.0	0.6	K132J333-6N++
0.047	13.0	11.0	5.0	10.0	0.6	K132J473-6N++
0.068	13.0	12.0	6.0	10.0	0.6	K132J683-6N++
0.033	17.5	11.0	5.0	15.0	0.8	K132J333-8Q++
0.047	17.5	11.0	5.0	15.0	0.8	K132J473-8Q++
0.068	17.5	11.0	5.0	15.0	0.8	K132J683-8Q++
0.10	17.5	12.0	6.0	15.0	0.8	K132J104-8Q++
0.15	17.5	13.5	7.5	15.0	0.8	K132J154-8Q++
0.22	17.5	16.0	10.0	15.0	0.8	K132J224-8Q++
0.33	17.5	19.0	11.0	15.0	0.8	K132J334-8Q++
0.10	26.5	15.0	6.0	22.5	0.8	K132J104-8U++
0.15	26.5	15.0	6.0	22.5	0.8	K132J154-8U++
0.22	26.5	16.0	7.0	22.5	0.8	K132J224-8U++
0.33	26.5	16.0	7.0	22.5	0.8	K132J334-8U++
0.47	26.5	17.0	8.5	22.5	0.8	K132J474-8U++
0.68	26.5	22.0	12.0	22.5	0.8	K132J684-8U++

产品编码说明 Part number system

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

<p>第 1~3 位 型号代码 K13=CL23</p>	<p>Digit 1 to 3: Series code of film capacitor K13=CL23</p>
<p>第 4~5 位 额定电压 1J=63V,2A=100V , 2E=250V , 2G=400V,2J=630V,</p>	<p>Digit 4 to 5: Rated Voltage 1J=63V,2A=100V , 2E=250V , 2G=400V,2J=630V,</p>
<p>第 6~8 位 标称容量 例如: 102=10*10²pF=0.001μF</p>	<p>Digit 6 to 8: Rated capacitance value e.g: 102=10*10²pF=0.001μF</p>
<p>第 9 位 容量偏差 J=±5%,K=±10%, M=±20%</p>	<p>Digit 9: Capacitance tolerance J=±5%,K=±10%, M=±20%</p>
<p>第 10 位 引线线径 d 5=0.5mm,6=0.6mm,8=0.8mm</p>	<p>Digit 10: Lead wire diameter d 5=0.5mm,6=0.6mm,8=0.8mm</p>
<p>第 11 位 引出端脚距 l=7.5mm,N=10mm,Q=15mm, U=22.5mm,W=27.5mm</p>	<p>Digit 11: Pitch l=7.5mm,N=10mm,Q=15mm, U=22.5mm,W=27.5mm</p>
<p>第 12~15 位 引线加工及包装代码 (表 2)</p>	<p>Digit 12 to 15:Lead form and packing codes (figure 2)</p>
<p>第 16 位 引线特征码 (表 1) 例如: A=A 型, B=B 型, C=C 型</p>	<p>Digit 16: Forming lead shapes (figure 1) e.g: A=A, B=B, C=C</p>
<p>第 17 位 内部特征码</p>	<p>Digit 17: Internal use</p>

表 1 Figure 1:

代码 Code	A	B	C	D	E
引线形状 Forming shape					
适用范围 Applicable range	$P \geq F$		$P \leq F$		P
	$0\text{mm} \leq P - F \leq 3\text{mm}$	$3\text{mm} < P - F \leq 8\text{mm}$	$3\text{mm} < F - P \leq 5\text{mm}$	$0\text{mm} < F - P \leq 3\text{mm}$	
尺寸标准 Dimension standards	$A \leq 5.0\text{mm}$; B 允许偏差为 $\pm 0.5\text{mm}$; The permissible tolerance of 'B' is $\pm 0.5\text{mm}$ L 允许偏差为 $\pm 5\text{mm}$; The permissible tolerance of 'L' is $\pm 5\text{mm}$ F 允许偏差为 $\pm 1.0\text{mm}$; The permissible tolerance of 'F' is $\pm 1.0\text{mm}$ P 允许偏差为 $\pm 1.0\text{mm}$ The permissible tolerance of 'P' is $\pm 1.0\text{mm}$				

表 2 引线加工和包装代码

Figure 2: :Lead form and packing codes

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	I	F=7.5mm		表示弯脚 Kinked	A	产品在连续的两个载带孔之间 当引线脚距5mm 时, 产品之间的距离 为12.7mm, 产品底部与载孔距离20mm Each cap. between two consecutive holes P3=12.7mm,H=20.0mm (For pitch5mm)
		N	F=10.0mm				
		Q	F=15.0mm				
		U	F=22.5mm	2	表示直脚 Straight		
		W	F=27.5mm				
F	引线成型 Lead kinked	I	F=7.5mm	0	B=4.5mm	0	B 的长度偏差 $\pm 0.5\text{mm}$ B Length tolerance $\pm 0.5\text{mm}$
		N	F=10.0mm				
		Q	F=15.0mm				
		U	F=22.5mm				
		W	F=27.5mm				
L	直脚包装 Straight lead	代码 Code	说明 explanation			0	引线长度偏差 $\pm 0.5\text{mm}$ Length tolerance $\pm 0.5\text{mm}$
		45	引线长度 lead length 4.5mm				

第 12~15 位代码为“K000”时, 表示标准引线长度 38mm min

When Digit 12 to 15 is K000 means standard lead length is 38mm min