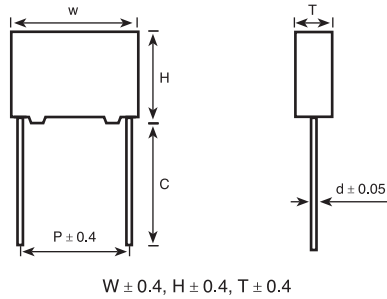




## 塑料外壳金属化聚酯膜电容器 Metallized polyester film capacitor(Box-type)

### ■ 外形图 Outline Drawing



### ■ 特点

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

### ■ 主要用途

- 旁路，隔直，耦合，退耦
- 脉冲，逻辑，定时，振荡电路

### ■ 技术要求 Specifications

### ■ Features

- High reliability
- Metallized polyester film, non-inductive wound construction
- Plastic case (UL94 V-0), Epoxy resin sealing

### ■ Typical Applications

- By-passing, blocking, coupling, decoupling,
- Pulse, logic, timing, oscillator circuits.

引用标准 Reference Standard	GB/T 7332 (IEC 60384-2)					
气候类别 Climatic Category	55/105/56					
额定温度 Rated Temperature	85°C					
工作温度 Operating Temperature Range	-55°C ~ 105°C (+85°C to +105°C: decreasing factor 1.25% per °C for U <sub>R</sub> )					
额定电压 Rated Voltage	63V、100V、160V、250V、400V、630V、1 000V					
电容量范围 Capacitance Range	0.0010μF ~ 47.0μF					
电容量偏差 Capacitance Tolerance	± 5%(J)、± 10%(K)、± 20%(M)					
耐电压 Voltage Proof	1.6U <sub>R</sub> ( 5s )					
损耗角正切 Dissipation Factor	测试频率 Frequency	C <sub>N</sub> ≤ 0.1μF	C <sub>N</sub> > 0.1μF			
	1kHz	≤ 1.0%	≤ 1.0%			
	10kHz	≤ 1.5%	≤ 1.5%			
	100kHz	≤ 3.0%	-			
绝缘电阻 Insulation Resistance	U <sub>R</sub> ≤ 100V	≥ 3 750MΩ, C <sub>N</sub> ≤ 0.33μF ≥ 1 250s, C <sub>N</sub> > 0.33μF (20°C, 10V, 1min)				
	U <sub>R</sub> > 100V	≥ 30 000MΩ, C <sub>N</sub> ≤ 0.33μF ≥ 10 000s, C <sub>N</sub> > 0.33μF (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 <sub>R</sub> 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 <sub>R</sub> /U。 If the working voltage(U) is lower than the rated voltage(U <sub>R</sub> ), 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 <sub>R</sub> /U.	U <sub>R</sub> (V)	dV/dt (V/μs)				
		P=7.5	P=10.0	P=15.0	P=22.5	P=27.5
	63	7.5	6	3	2	1
	100	15	9	5	3	2
	250	30	20	12	8	5
	400	40	30	20	10	7
	630	50	40	25	12	10
1 000	70	60	30	15	12	

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:

C23 Pattern II (Reduced size)

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

第1~3位	型号代码	Digit 1 to 3	Series code
	C23= CL23		C23= CL23
第4~5位	直流额定电压	Digit 4 to 5	DC rated voltage
	1J=63V 2A=100V 2C=160V 2E=250V		1J=63V 2A=100V 2C=160V 2E=250V
	2G=400V 2J=630V 3A=1 000V		2G=400V 2J=630V 3A=1 000V
第6~8位	标称容量	Digit 6 to 8	Rated capacitance value
	举例: 103=10 × 10 <sup>3</sup> pF=0.01μF		For example: 103=10 × 10 <sup>3</sup> pf=0.01μF
第9位	容量偏差	Digit 9	Capacitance tolerance
	J= ± 5% K= ± 10% M= ± 20%		J= ± 5%,K= ± 10%,M= ± 20%
第10位	引线脚距P	Digit 10	Lead pitch
	3=7.5mm 4=10.0mm 6=15.0mm		3=7.5mm 4=10.0mm 6=15.0mm
	9=22.5mm B=27.5mm		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

■ Table 1 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	3	F=7.5mm	0	表示直脚 straight	1	产品在连续的两个载带孔之间 each cap. among two consecutive holes P3=12.7mm,H=18.5mm (For pitch=7.5mm)
		4	F=10.0mm				
		6	F=15.0mm				
C	直脚 straight lead “C” in the figure above	代码 Code	说明 explanation	0		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				



■ 外形尺寸 Dimensions ( mm )  
Pattern II ( Reduced sizes )

400Vdc (200Vac)							630Vdc (220Vac) <sup>®</sup>							1000Vdc(300Vac)						
C <sub>N</sub> (μF)	W	H	T	P	d	Part number	C <sub>N</sub> (μF)	W	H	T	P	d	Part number	C <sub>N</sub> (μF)	W	H	T	P	d	Part number
0.022	10.5	8.5	3.5	7.5	0.5	C232G223-3S****++	0.0022	10.5	8.5	3.5	7.5	0.5	C232J222-3S****++	0.0010	10.5	8.5	3.5	7.5	0.5	C233A102-3S****++
0.033	10.5	8.5	3.5	7.5	0.5	C232G333-3S****++	0.0047	10.5	8.5	3.5	7.5	0.5	C232J472-3S****++	0.0015	10.5	8.5	3.5	7.5	0.5	C233A152-3S****++
0.047	10.5	9.0	4.0	7.5	0.6	C232G473-3S****++	0.0068	10.5	8.5	3.5	7.5	0.5	C232J682-3S****++	0.0022	10.5	8.5	3.5	7.5	0.5	C233A222-3S****++
0.068	10.5	11.0	5.0	7.5	0.6	C232G683-3S****++	0.010	10.5	8.5	3.5	7.5	0.5	C232J103-3S****++	0.0033	10.5	8.5	3.5	7.5	0.5	C233A332-3S****++
0.082	10.5	12.0	6.0	7.5	0.6	C232G823-3S****++	0.015	10.5	9.0	4.0	7.5	0.6	C232J153-3S****++	0.0047	10.5	8.5	3.5	7.5	0.5	C233A472-3S****++
0.10	10.5	12.0	6.0	7.5	0.6	C232G104-3S****++	0.022	10.5	11.0	5.0	7.5	0.6	C232J223-3S****++	0.0068	10.5	9.0	4.0	7.5	0.6	C233A682-3S****++
0.010	13.0	9.0	4.0	10.0	0.6	C232G103-4S****++	0.033	10.5	12.0	6.0	7.5	0.6	C232J333-3S****++	0.010	10.5	11.0	5.0	7.5	0.6	C233A103-3S****++
0.015	13.0	9.0	4.0	10.0	0.6	C232G153-4S****++	0.047	10.5	12.0	6.0	7.5	0.6	C232J473-3S****++	0.015	10.5	12.0	6.0	7.5	0.6	C233A153-3S****++
0.022	13.0	9.0	4.0	10.0	0.6	C232G223-4S****++	0.0047	13.0	9.0	4.0	10.0	0.6	C232J472-4S****++	0.0010	13.0	9.0	4.0	10.0	0.6	C233A102-4S****++
0.033	13.0	9.0	4.0	10.0	0.6	C232G333-4S****++	0.0068	13.0	9.0	4.0	10.0	0.6	C232J682-4S****++	0.0015	13.0	9.0	4.0	10.0	0.6	C233A152-4S****++
0.047	13.0	9.0	4.0	10.0	0.6	C232G473-4S****++	0.010	13.0	9.0	4.0	10.0	0.6	C232J103-4S****++	0.0022	13.0	9.0	4.0	10.0	0.6	C233A222-4S****++
0.056	13.0	9.0	4.0	10.0	0.6	C232G563-4S****++	0.015	13.0	9.0	4.0	10.0	0.6	C232J153-4S****++	0.0033	13.0	9.0	4.0	10.0	0.6	C233A332-4S****++
0.068	13.0	11.0	5.0	10.0	0.6	C232G683-4S****++	0.022	13.0	9.0	4.0	10.0	0.6	C232J223-4S****++	0.0047	13.0	9.0	4.0	10.0	0.6	C233A472-4S****++
0.10	13.0	11.0	5.0	10.0	0.6	C232G104-4S****++	0.033	13.0	11.0	5.0	10.0	0.6	C232J333-4S****++	0.0056	13.0	9.0	4.0	10.0	0.6	C233A562-4S****++
0.15	13.0	12.0	6.0	10.0	0.6	C232G154-4S****++	0.047	13.0	11.0	5.0	10.0	0.6	C232J473-4S****++	0.0068	13.0	9.0	4.0	10.0	0.6	C233A682-4S****++
0.047	17.5	11.0	5.0	15.0	0.8	C232G473-6S****++	0.068	13.0	12.0	6.0	10.0	0.6	C232J683-4S****++	0.010	13.0	9.0	4.0	10.0	0.6	C233A103-4S****++
0.068	17.5	11.0	5.0	15.0	0.8	C232G683-6S****++	0.033	17.5	11.0	5.0	15.0	0.8	C232J333-6S****++	0.015	13.0	11.0	5.0	10.0	0.6	C233A153-4S****++
0.10	17.5	11.0	5.0	15.0	0.8	C232G104-6S****++	0.047	17.5	11.0	5.0	15.0	0.8	C232J473-6S****++	0.022	13.0	11.0	5.0	10.0	0.6	C233A223-4S****++
0.15	17.5	11.0	5.0	15.0	0.8	C232G154-6S****++	0.068	17.5	11.0	5.0	15.0	0.8	C232J683-6S****++	0.010	17.5	11.0	5.0	15.0	0.8	C233A103-6S****++
0.22	17.5	12.0	6.0	15.0	0.8	C232G224-6S****++	0.10	17.5	12.0	6.0	15.0	0.8	C232J104-6S****++	0.015	17.5	11.0	5.0	15.0	0.8	C233A153-6S****++
0.33	17.5	13.5	7.5	15.0	0.8	C232G334-6S****++	0.15	17.5	13.5	7.5	15.0	0.8	C232J154-6S****++	0.022	17.5	11.0	5.0	15.0	0.8	C233A223-6S****++
0.47	17.5	14.5	8.5	15.0	0.8	C232G474-6S****++	0.22	17.5	16.0	10.0	15.0	0.8	C232J224-6S****++	0.033	17.5	12.0	6.0	15.0	0.8	C233A333-6S****++
0.56	17.5	16.0	10.0	15.0	0.8	C232G564-6S****++	0.33	17.5	19.0	11.0	15.0	0.8	C232J334-6S****++	0.047	17.5	12.0	6.0	15.0	0.8	C233A473-6S****++
0.68	17.5	16.0	10.0	15.0	0.8	C232G684-6S****++	0.10	26.5	15.0	6.0	22.5	0.8	C232J104-9S****++	0.068	17.5	13.5	7.5	15.0	0.8	C233A683-6S****++
0.22	26.5	15.0	6.0	22.5	0.8	C232G224-9S****++	0.15	26.5	15.0	6.0	22.5	0.8	C232J154-9S****++	0.10	17.5	14.5	8.5	15.0	0.8	C233A104-6S****++
0.33	26.5	15.0	6.0	22.5	0.8	C232G334-9S****++	0.22	26.5	16.0	7.0	22.5	0.8	C232J224-9S****++	0.033	26.5	15.0	6.0	22.5	0.8	C233A333-9S****++
0.47	26.5	15.0	6.0	22.5	0.8	C232G474-9S****++	0.33	26.5	16.0	7.0	22.5	0.8	C232J334-9S****++	0.047	26.5	15.0	6.0	22.5	0.8	C233A473-9S****++
0.68	26.5	16.0	7.0	22.5	0.8	C232G684-9S****++	0.47	26.5	17.0	8.5	22.5	0.8	C232J474-9S****++	0.068	26.5	15.0	6.0	22.5	0.8	C233A683-9S****++
1.0	26.5	18.50	10.0	22.5	0.8	C232G105-9S****++	0.68	26.5	22.0	12.0	22.5	0.8	C232J684-9S****++	0.10	26.5	15.0	6.0	22.5	0.8	C233A104-9S****++
1.5	26.5	22.0	12.0	22.5	0.8	C232G155-9S****++	0.33	32.0	18.0	9.0	27.5	0.8	C232J334-BS****++	0.15	26.5	16.0	7.0	22.5	0.8	C233A154-9S****++
0.68	32.0	18.0	9.0	27.5	0.8	C232G684-BS****++	0.47	32.0	18.0	9.0	27.5	0.8	C232J474-BS****++	0.22	26.5	17.0	8.5	22.5	0.8	C233A224-9S****++
1.0	32.0	18.0	9.0	27.5	0.8	C232G105-BS****++	0.68	32.0	20.0	11.0	27.5	0.8	C232J684-BS****++	0.33	26.5	20.0	11.0	22.5	0.8	C233A334-9S****++
1.5	32.0	20.0	11.0	27.5	0.8	C232G155-BS****++	1.0	32.0	20.0	11.0	27.5	0.8	C232J105-BS****++	0.15	32.0	18.0	9.0	27.5	0.8	C233A154-BS****++
1.8	32.0	20.0	11.0	27.5	0.8	C232G185-BS****++								0.22	32.0	18.0	9.0	27.5	0.8	C233A224-BS****++
2.2	32.0	22.0	13.0	27.5	0.8	C232G225-BS****++								0.33	32.0	20.0	11.0	27.5	0.8	C233A334-BS****++
3.3	32.0	24.5	15.0	27.5	0.8	C232G335-BS****++								0.47	32.0	20.0	11.0	27.5	0.8	C233A474-BS****++
4.7	32.0	30.0	16.0	27.5	0.8	C232G475-BS****++								0.68	32.0	28.0	14.0	27.5	0.8	C233A684-BS****++
6.8	32.0	33.0	18.0	27.5	0.8	C232G685-BS****++								1.0	32.0	30.0	16.0	27.5	0.8	C233A105-BS****++
														1.5	32.0	37.0	22.0	27.5	0.8	C233A155-BS****++

备注: 1. “-”表示容量偏差。 “-”=capacitance tolerance code, M=±20%,K=±10%,J=±5%  
2. “\*\*\*\*”表示引线加工和包装代码(见table 1)。“\*\*\*\*”=lead form and packing code (refer to table 1)  
3. “@” Not suitable for across-the-line applications. Pls refer to the Interference Suppression Capacitors(Pag.118)