

## CL233X金属化聚酯膜电容-超小型

### CL233X Mini size Box-type Metallized Polyester Film Capacitor

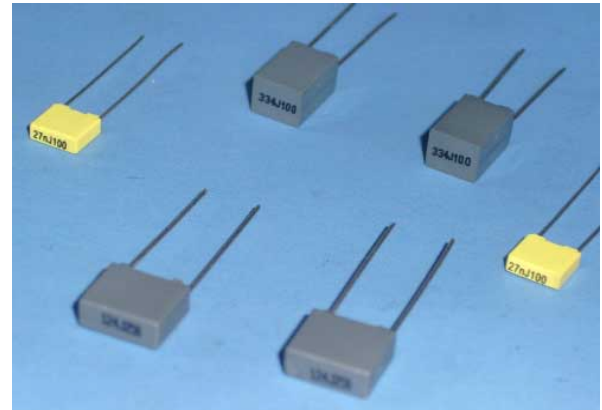
#### ■ 外形图 Outline Drawing P=5.0MM

#### ■ 特点

- 由于采用叠片式结构,因而体积小,抗脉冲能力强

#### ■ Features

- High dv/dt ability and small size due to stacked construction



#### ■ 技术要求 Specifications

引用标准 Reference Standard	GB 7332( IEC 60384-2 )		
气候类别 Climatic	55/00/56		
额定温度 Rated Temperature	85℃		
工作温度范围 Operating Temperature Range	-55℃ ~105℃ ( +85℃ to+105℃ : decreasing factor 1.25% per℃ for $V_R$ ( DC ) )		
额定电压 Rated Voltage	50/63V、100V、250V、400V、500V、630V		
电容量范围 Capacitance Range	0.0010 $\mu$ F ~1.5 $\mu$ F		
电容量偏差 Capacitance Tolerance	$\pm 5\%$ ( J ) , $\pm 10\%$ ( K ) , $\pm 20\%$ ( M )		
耐电压 Voltage Proof	I 型:1.6 $U_R$ ( 5s )、II 型:1.4 $U_R$ ( 5s )		
损耗角正切 Dissipation Factor	测试频率 Frequency	$C_R \leq 0.1 \mu F$	$C_R > 0.1 \mu F$
	1 kHz	$\leq 1.0\%$	$\leq 1.0\%$
	10 kHz	$\leq 1.5\%$	$\leq 1.5\%$
	100 kHz	$\leq 3.0\%$	—
绝缘电阻 Insulation Resistance	$U_R > 100V$	$\geq 30000M \Omega$ $C_R \leq 0.33\mu F$ ( 20℃ 10V 1min )	
	$U_R \leq 100V$	$\geq 15000M \Omega$ $C_R \leq 0.3\mu F$ $\geq 5000s$ $C_R > 0.33\mu F$ ( 20℃ 10V 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)	
	50/63	250	
	100	300	
	250	400	
	400	600	
	500	700	
630	800		

## ■外形尺寸 Dimensions (mm)

容器厚度 Capacitor Thickness ) T	≤ 3.5	> 3.5
引出线直径 Lead Wire Dia.) d± 0.05	0.5	0.6
外形尺寸偏差 Dimension Tolerance :W H T)	± 0.2	± 0.4

## I 型 (Pattern I)

容量 ( $\mu\text{F}$ )	50/63VDC			100VDC			250VDC			400VDC			500VDC			630VDC		
	W	H	T	W	H	T	W	H	T	W	H	T	W	H	T	W	H	T
0.0010	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5
0.0012	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5
0.0015	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5
0.0018	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	7.5	3.5
0.0022	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	7.5	3.5
0.0027	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	7.5	3.5
0.0033	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	7.5	3.5	7.2	7.5	3.5
0.0039	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	7.5	3.5	7.2	7.5	3.5
0.0047	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	7.5	3.5	7.2	9.5	4.5
0.0056	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	7.5	3.5	7.2	7.5	3.5	7.2	9.5	4.5
0.0068	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	7.5	3.5	7.2	9.5	4.5	7.2	9.5	4.5
0.0082	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	7.5	3.5	7.2	9.5	4.5	7.2	9.5	4.5
0.010	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	7.5	3.5	7.2	9.5	4.5	7.2	10.0	5.0
0.012	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	9.5	4.5	7.2	9.5	4.5	7.2	11.0	6.0
0.015	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	9.5	4.5	7.2	10.0	5.0	7.2	11.0	6.0
0.018	7.2	6.5	2.5	7.2	6.5	2.5	7.2	6.5	2.5	7.2	9.5	4.5	7.2	11.0	6.0	7.2	11.0	6.0
0.022	7.2	6.5	2.5	7.2	7.5	3.5	7.2	7.5	3.5	7.2	10.0	5.0	7.2	11.0	6.0			
0.027	7.2	6.5	2.5	7.2	7.5	3.5	7.2	7.5	3.5	7.2	11.0	6.0	7.2	11.0	6.0			
0.033	7.2	6.5	2.5	7.2	7.5	3.5	7.2	7.5	3.5	7.2	11.0	6.0						
0.039	7.2	6.5	2.5	7.2	7.5	3.5	7.2	7.5	3.5	7.2	11.0	6.0						
0.047	7.2	6.5	2.5	7.2	6.5	2.5	7.2	9.5	4.5	7.2	11.0	6.0						
0.056	7.2	6.5	2.5	7.2	6.5	2.5	7.2	9.5	4.5									
0.068	7.2	6.5	2.5	7.2	6.5	2.5	7.2	9.5	4.5									
0.082	7.2	6.5	2.5	7.2	6.5	2.5	7.2	10.0	5.0									
0.10	7.2	6.5	2.5	7.2	7.5	3.5	7.2	10.0	5.0									
0.12	7.2	6.5	2.5	7.2	9.5	4.5	7.2	11.0	6.0									
0.15	7.2	7.5	3.5	7.2	9.5	4.5	7.2	11.0	6.0									
0.18	7.2	7.5	3.5	7.2	9.5	4.5												
0.22	7.2	7.5	3.5	7.2	10.0	5.0												
0.27	7.2	9.5	4.5	7.2	10.0	5.0												
0.33	7.2	9.5	4.5	7.2	11.0	6.0												
0.39	7.2	9.5	4.5	7.2	11.0	6.0												
0.47	7.2	10.0	5.0	7.2	11.0	6.0												
0.56	7.2	10.0	5.0	7.2	11.0	6.0												
0.68	7.2	11.0	6.0															
0.82	7.2	11.0	6.0															
1.0	7.2	11.0	6.0															

## II 型 (Pattern II)

容量 ( $\mu\text{F}$ )	50/63VDC			100VDC			容量 ( $\mu\text{F}$ )	50/63VDC			100VDC		
	W	H	T	W	H	T		W	H	T	W	H	T
0.10				7.2	6.5	2.5	0.39	7.2	7.5	3.5	7.2	9.5	4.5
0.12				7.2	6.5	2.5	0.47	7.2	7.5	3.5	7.2	10.0	5.0
0.15	7.2	6.5	2.5	7.2	7.5	3.5	0.56	7.2	9.5	4.5	7.2	10.0	5.0
0.18	7.2	6.5	2.5	7.2	7.5	3.5	0.68	7.2	9.5	4.5	7.2	11.0	6.0
0.22	7.2	6.5	2.5	7.2	7.5	3.5	0.82	7.2	9.5	4.5	7.2	11.0	6.0
0.27	7.2	6.5	2.5	7.2	9.5	4.5	1.0	7.2	10.0	5.0	7.2	11.0	6.0
0.33	7.2	7.5	3.5	7.2	9.5	4.5	1.5	7.2	11.0	6.0			

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