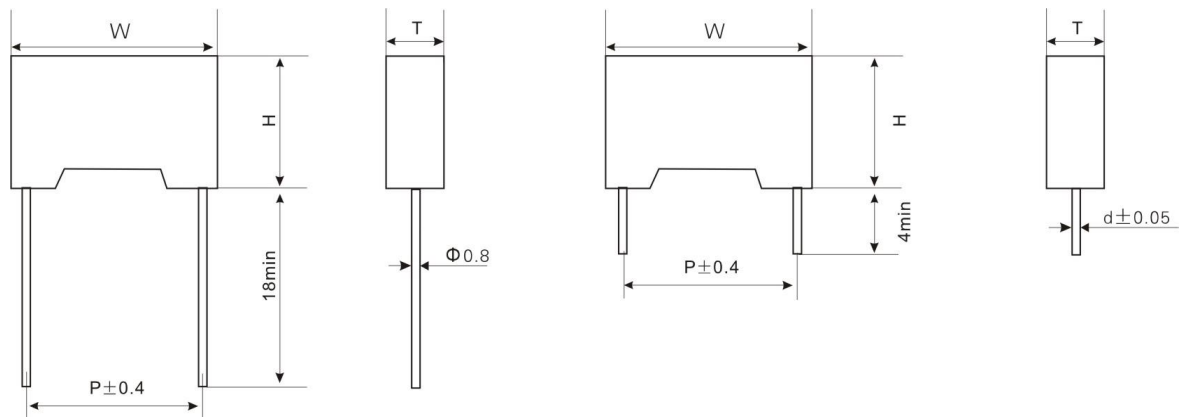




校正电容-金属化聚酯膜电容器

Polyester film Capacitor

外形图 Outline Drawing



■ 特点

- 可靠性高
- 塑料外壳封装, 外观一致性好

■ Features

- High reliability
- Box type provide the identical outer appearance

技术要求 Specifications

引用标准 Reference Standard	GB 7332 (IEC 60384-2)
气候类别 Climatic Category	55/100/56
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 °C for VR (DC)
额定电压 Rated Voltage	50V/63V、100V、250V、400V、500V、630V、700V
电容量范围 Capacitance Range	0.001μF~2.2μF
电容量偏差 Capacitance Tolerance	±5% (J), ±10% (K), ±20% (M)

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技术要求 Specifications

耐电压 Voltage Proof	I 型 1.6UR (5s) II 型 1.4UR (5s)		
损耗角正切 Dissipation Factor	测试频率 Frequency	$C_R \leq 0.1 \mu F$	$C_R > 0.1 \mu F$
	1kHz	$\leq 1.0\%$	$\leq 1.0\%$
	10kHz	$\leq 1.5\%$	$\leq 1.5\%$
	100kHz	$\leq 3.0\%$	---
绝缘电阻 Insulation Resistance	$U_R > 100V$	$\geq 30000M\Omega$, $C_R \leq 0.33 \mu F$ $\geq 10000s$, $C_R > 0.33 \mu F (20^\circ C, 10V, 1min)$	
	$U_R \leq 100V$	$\geq 15000M\Omega$, $C_R \leq 0.33 \mu F$ $\geq 5000s$, $C_R > 0.33 \mu F (20^\circ C, 10V, 1min)$	
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 UR 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 UR/U. If the working voltage (U) is lower than the rated voltage (UR), 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 UR/U.	U_R (V)	dv/dt (V/us)	
	50/63	250	
	100	300	
	250	400	
	400	600	
	500	700	
	630	800	

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外形尺寸 Dimensions (mm) P=5mm I 型

电容器厚度 (Capacitor Thickness) T	≤3.5	≥4.0
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

电容量 (μF)	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
0.001	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
0.01	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	5
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	6
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	5	7.2	11	6
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	6	7.2	11	6
0.022	7.2	6.5	2.5	7.2	6.5	2.5	7.2	7.5	3.5	7.2	10	5	7.2	11	6			
0.027	7.2	6.5	2.5	7.2	6.5	2.5	7.2	7.5	3.5	7.2	11	6	7.2	11	6			
0.033	7.2	6.5	2.5	7.2	6.5	2.5	7.2	7.5	3.5	7.2	11	6						
0.039	7.2	6.5	2.5	7.2	6.5	2.5	7.2	7.5	3.5	7.2	11	6						

校正电容-金属化聚酯膜电容器

Polyester film Capacitor

外形尺寸 Dimensions (mm) P=5mm I 型

电容器厚度 (Capacitor Thickness) T	≤3.5	≥4.0
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

电容量 (μF)	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
0.047	7.2	6.5	2.5	7.2	6.5	2.5	7.2	9.5	4.5	7.2	11	6						
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	5									
0.1	7.2	6.5	2.5	7.2	7.5	3.5	7.2	10	5									
0.12	7.2	6.5	2.5	7.2	9.5	4.5	7.2	11	6									
0.15	7.2	7.5	3.5	7.2	9.5	4.5	7.2	11	6									
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	5												
0.27	7.2	9.5	4.5	7.2	10	5												
0.33	7.2	9.5	4.5	7.2	11	6												
0.39	7.2	9.5	4.5	7.2	11	6												
0.47	7.2	10	5	7.2	11	6												
0.56	7.2	10	5	7.2	11	6												
0.68	7.2	11	6															
0.82	7.2	11	6															
1	7.2	11	6															

校正电容-金属化聚酯膜电容器

Polyester film Capacitor

外形尺寸 Dimensions (mm) P=5mm II型

电容器厚度 (Capacitor Thickness) T	≤3.5	≥4.0
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

电容量 (μF)	50/63VDC			100VDC		
	W	H	T	W	H	T
0.1	7.2	6.5	2.5	7.2	6.5	2.5
0.12	7.2	6.5	2.5	7.2	6.5	2.5
0.15	7.2	6.5	2.5	7.2	7.5	3.5
0.18	7.2	6.5	2.5	7.2	7.5	3.5
0.22	7.2	6.5	2.5	7.2	7.5	3.5
0.27	7.2	6.5	2.5	7.2	9.5	4.5
0.33	7.2	7.5	3.5	7.2	9.5	4.5
0.39	7.2	7.5	3.5	7.2	9.5	4.5
0.47	7.2	7.5	3.5	7.2	10	5
0.56	7.2	9.5	4.5	7.2	10	5
0.68	7.2	9.5	4.5	7.2	11	6
0.82	7.2	9.5	4.5	7.2	11	6
1	7.2	10	5	7.2	11	6
1.5	7.2	11	6			
2.2	7.2	11	6			

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Polyester film Capacitor

外形尺寸 Dimensions (mm) P=5mm II型

电容器厚度 (Capacitor Thickness) T	≤3.5	≥4.0
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

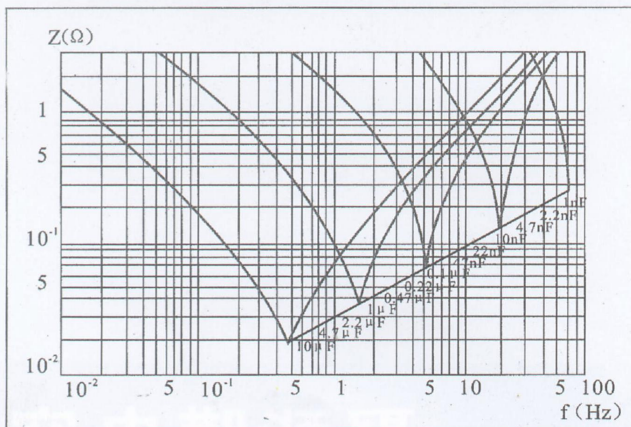
μ F	250Vdc(140Vac)			μ F	400Vdc(160Vac)			μ F	500/630Vdc(220Vac)			μ F	700Vdc(250Vac)		
	W	H	T		W	H	T		W	H	T		W	H	T
0.022	7.2	6.5	2.5	0.0056	7.2	6.5	2.5	0.0018	7.2	6.5	2.5	0.001	7.2	6.5	2.5
0.027	7.2	6.5	2.5	0.0068	7.2	6.5	2.5	0.0022	7.2	6.5	2.5	0.0012	7.2	6.5	2.5
0.033	7.2	6.5	2.5	0.0082	7.2	6.5	2.5	0.0027	7.2	6.5	2.5	0.0015	7.2	6.5	2.5
0.039	7.2	7.5	3.5	0.01	7.2	6.5	2.5	0.0033	7.2	6.5	2.5	0.0018	7.2	6.5	2.5
0.047	7.2	7.5	3.5	0.012	7.2	6.5	2.5	0.0039	7.2	6.5	2.5	0.0022	7.2	6.5	2.5
0.056	7.2	7.5	3.5	0.015	7.2	7.5	3.5	0.0047	7.2	6.5	2.5	0.0027	7.2	6.5	2.5
0.068	7.2	7.5	3.5	0.018	7.2	7.5	3.5	0.0056	7.2	7.5	3.5	0.0033	7.2	7.5	3.5
0.082	7.2	9.5	4.5	0.022	7.2	7.5	3.5	0.0068	7.2	7.5	3.5	0.0039	7.2	7.5	3.5
0.1	7.2	9.5	4.5	0.027	7.2	7.5	3.5	0.0082	7.2	7.5	3.5	0.0047	7.2	7.5	3.5
0.12	7.2	9.5	4.5	0.033	7.2	9.5	4.5	0.01	7.2	7.5	3.5	0.0056	7.2	7.5	3.5
0.15	7.2	10	5	0.039	7.2	9.5	4.5	0.012	7.2	9.5	4.5	0.0068	7.2	7.5	3.5
0.18	7.2	11	6	0.047	7.2	9.5	4.5	0.015	7.2	9.5	4.5	0.0082	7.2	9.5	4.5
0.22	7.2	11	6	0.051	7.2	10	5	0.018	7.2	9.5	4.5	0.01	7.2	9.5	4.5
				0.056	7.2	11	6	0.022	7.2	10	5	0.012	7.2	9.5	4.5
				0.068	7.2	11	6	0.027	7.2	11	6	0.015	7.2	10	5
				0.082	7.2	11	6	0.033	7.2	11	6	0.018	7.2	10	5
				0.1	7.2	11	6					0.022	7.2	11	6

校正电容-金属化聚酯膜电容器

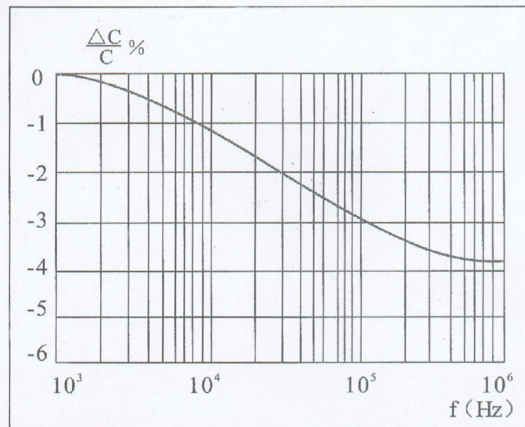
Polyester film Capacitor

聚酯膜电容器主要技术特性曲线图

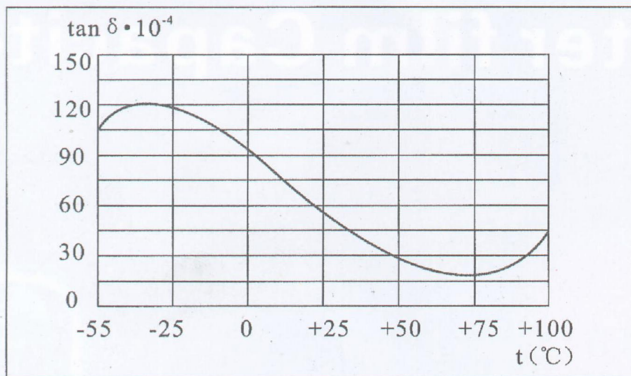
Polyester film Capacitor characteristics reference



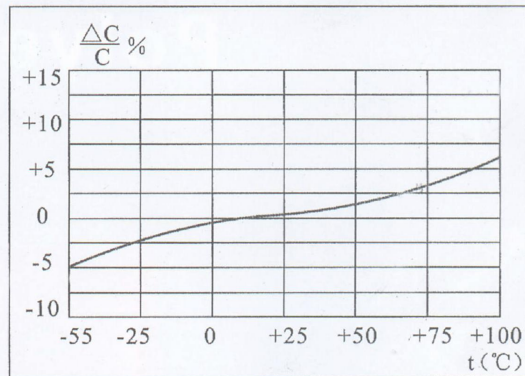
阻抗与频率的关系
Resistance-Frequency characteristics



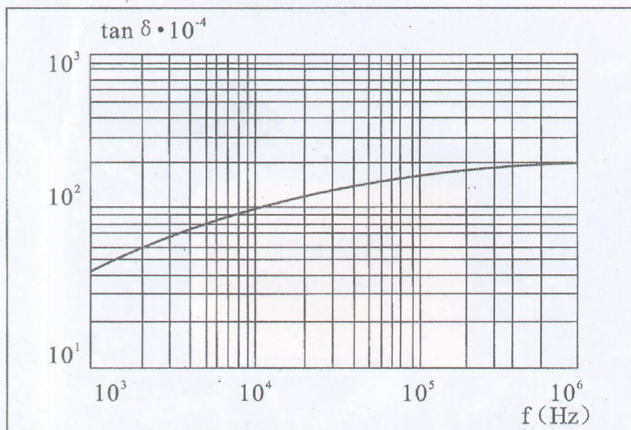
容量变化率与频率的关系 (室内温度)
Capacitance change ($\Delta c/c$) -Frequency characteristics



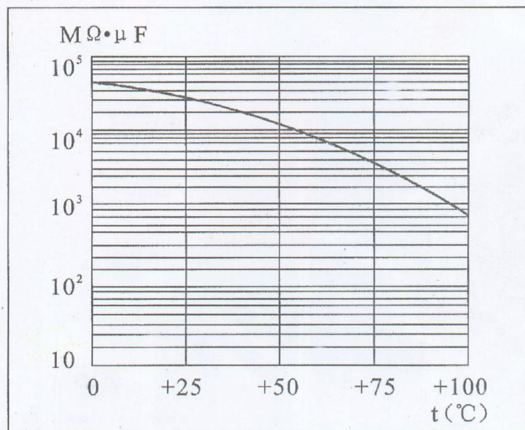
损耗角正切与温度的关系 (在1kHz时)
DF change-Temperature characteristics



容量变化率与温度的关系 (在1kHz时)
Capacitance change ($\Delta c/c$) -Temperature characteristics



损耗角正切与频率的关系
DF Change-Frequency characteristics



绝缘电阻与温度的关系
Resistance-Temperature characteristics