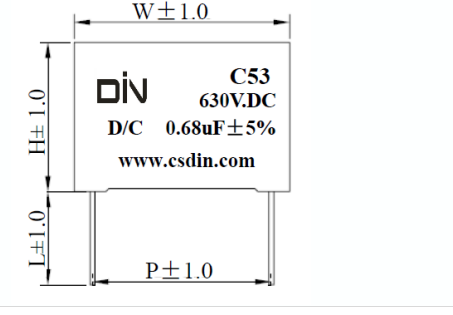


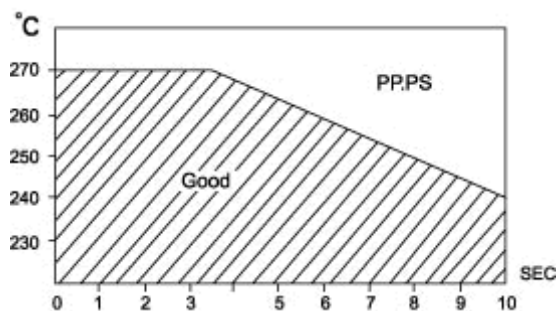
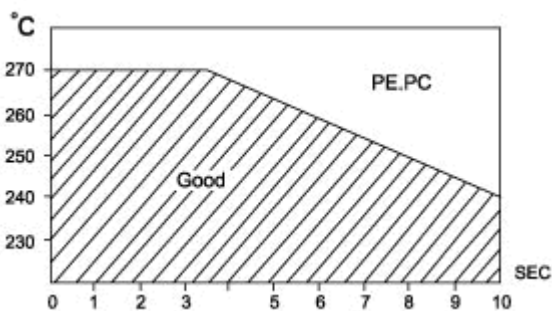


Item 项次	Part NO. 料号	Cap 容量(UF)	Tol. 公差	V <sub>R</sub> (VDC)	Dimension(尺寸)mm					
					W	H	T	P	L	dΦ
1	C536842DH7J253A000	0.68	±5%	630	32	28	14	27.5	15	0.8
2										
Item 项次	Name 品名	Description 内容	MARK 印字							
1	FILM	Doublesided Metalized Polypropylene film								
2	Wire	0.8CUwire								
3	Epoxy	Flame-retardant epoxy resin.								
Operating temperature rang 使用温度范围			Max. operating temperature T <sub>op,max</sub> 最高使用温度				+105℃			
			Upper category temperature T <sub>max</sub> 上限温度				+95℃			
			Lower category temperature T <sub>min</sub> 下限温度				-40℃			
			Rated temperature T <sub>R</sub> 额定温度				+85℃			
高温额定电压降额标准: 1.Continuous operation with Vdc or Vac at f ≤ 60 HZ 连续使用在直流电压或 f ≤ 60HZ 交流电压 2.Operating voltage Vop for short operating periods 短期使用电压 (Vdc or Vac at f ≤ 60 Hz)			T <sub>A</sub> (℃) 环境温度		DC voltage derating DC 电压降额		AC voltage derating AC 电压降额			
			T <sub>A</sub> ≤ 85		V <sub>C</sub> = V <sub>R</sub>		V <sub>C,RMS</sub> = V <sub>RMS</sub>			
			85 < T <sub>A</sub> ≤ 95		V <sub>C</sub> = V <sub>R</sub> · (165 - T <sub>A</sub> ) / 80		V <sub>C,RMS</sub> = V <sub>RMS</sub> · (165 - T <sub>A</sub> ) / 80			
			T <sub>A</sub> (℃)		DC voltage (max.hours)		AC voltage ( max.hours)			
			T <sub>A</sub> ≤ 95		V <sub>OP</sub> = 1.25 · V <sub>C</sub> (2000 h)		V <sub>OP</sub> = 1.0 · V <sub>C,RMS</sub> (2000 h)			
			95 < T <sub>A</sub> ≤ 105		V <sub>OP</sub> = 1.25 · V <sub>C</sub> (1000 h)		V <sub>OP</sub> = 1.0 · V <sub>C,RMS</sub> (1000 h)			
Dissipation factor tan δ 损耗角正切 tan δ			DF ≤ 0.0010 (Temperature at 20 ± 1 °C; Frequency at 10 ± 0.1KHZ; Voltage at rms ± 0.1V)							
Insulation resistance R <sub>ins</sub> or time constant τ = C <sub>R</sub> · R <sub>ins</sub> at ,RH ≤ 65% 20℃ 绝缘电阻或时间常数			C <sub>R</sub> ≤ 0.33uF		C <sub>R</sub> > 0.33uF		充电电压 100VDC			
			15000M Ω		5000 M Ω · uF		充电时间 60S			
DC test voltage 直流测试电压			1.6 * V <sub>R</sub> (DC) 10S CR < 0.33 uF 测试电流为 10MA CR > 0.33 uF 测试电流为 50MA							
Life test 寿命试验			1000h/85℃/V <sub>R</sub> · 1.5VDC 线路中应加一电阻, 阻值为电压每增加 1V, 阻值增加 1 Ω.							
Limit values after damp heat test 试验后限值			Capacitance change 容量变化   ΔC/C		≤ 10%					
			Dissipation factor change Δtan δ 损耗角正切变化 Δtan δ		≤ 1.0 · 10 <sup>-3</sup> (at 1kHz)					
			Insulation resistance R <sub>ins</sub> 绝缘电阻		≥ 50% of minimum					
			or time constant τ = C <sub>R</sub> · R <sub>ins</sub> 或时间常数		as-delivered values					
Failure rate λ 失效率			1 fit (≤ 1. 10 <sup>-9</sup> /h) at 0.5 · V <sub>R</sub> , 40℃							
Service life t <sub>SL</sub> 使用寿命			> 30000h at 1.0 · V <sub>R</sub> , T <sub>A</sub> ≤ 85℃							
Total failure failure due to variation of parameters 完全失效 故障原因 的变化参数			Short circuit or open circuit 短路或开路							
			Capacitance change 容量变化   ΔC/C		0%					
			Dissipation factor tan δ 损耗角正切 tan δ		> 4. upper limit value 上限值					
			Insulation resistance R <sub>ins</sub> 绝缘电阻		< 150M Ω (C <sub>R</sub> ≤ 0.33 uF)					
			or time constant τ = C <sub>R</sub> · R <sub>ins</sub> 时间常数		< 50S (C <sub>R</sub> > 0.33 uF)					
客户承认	核准	审核	确认	DIN	核准	审核	承办	日期	设计编号	
						Zhang	2022-10-15			

# 薄膜电容性能参数 Electrical Characteristics of Film Capacitor

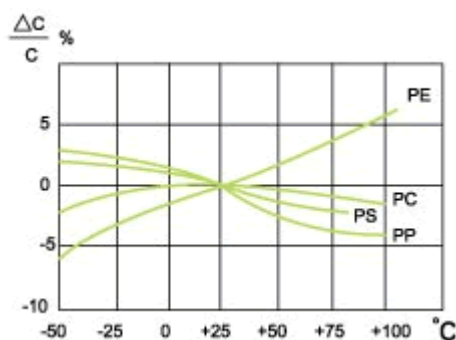
## 1. 焊接温度与时间对比

Soldering Temperature VS Time



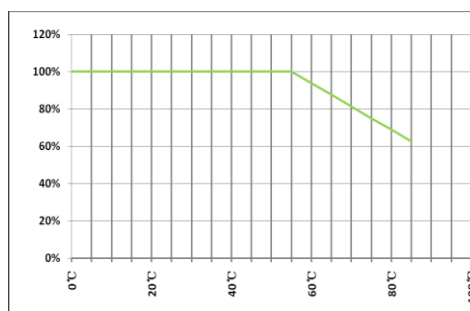
## 2. 温度性能

Temperature Characteristic



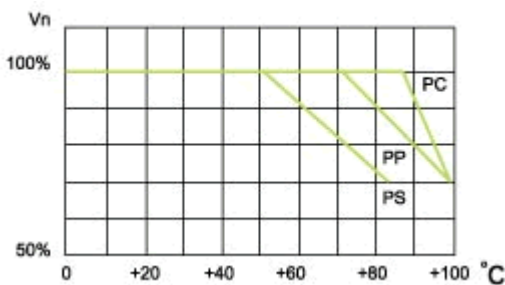
容量变化率与温度的关系

Capacitance vs. Temperature



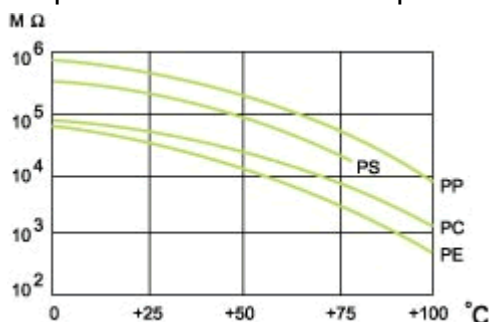
有效电流与温度的关系

Operation current vs. Temperature



使用电压与温度的关系

Operation voltage vs. Temperature

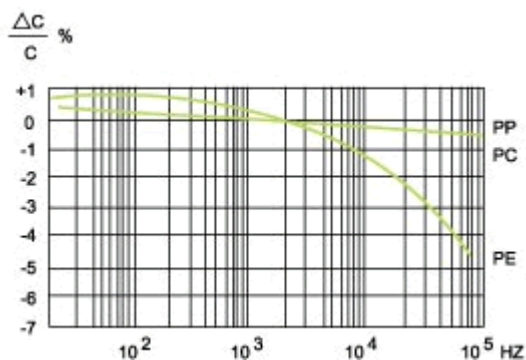


绝缘电阻与温度的关系

(CR value) IR vs. Temperature

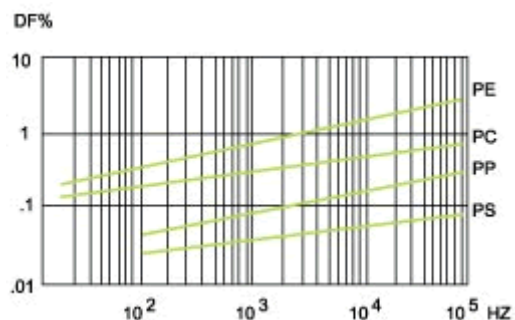
## 3. 频率性能

Frequency Characteristics



容量变化率与频率的关系

Capacitance vs. Frequency



损耗角正切与频率的关系

Dissipation Factor vs. Frequency