

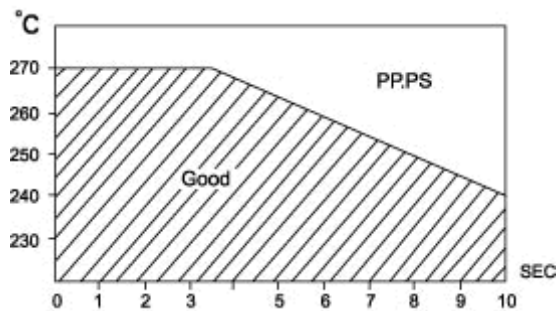
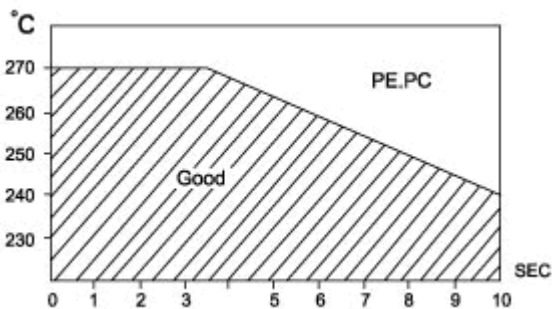


Specifications 规范											
Item 项次	Part NO. 料号		Cap 容量(UF)	公差	V <sub>R</sub> (VDC)	Dimension(尺寸)mm					
						W	H	T	P	L	d
1	C4215560H4K2X3A000		1.5	±10%	450	32	20	11	27.5	15	0.8
2											
3											
Item 项次	Name 品名	Description 内容		MARK 印字				COLOR: GREY			
1	Film	Metalized Polypropylene film						COLOR: GREY			
2	Wire	CU Wire									
3	Epoxy	Epoxy resin coating ( UL94V-0) GREY									
4	Case	( PBT CASE (UL94V-0) )- GREY									
Operating temperature rang 使用温度范围			Max. operating temperature T <sub>op,max</sub> 最高使用温度					+105°C			
			Lower category temperature T <sub>min</sub> 下限温度					-40°C			
Operating AC voltage V <sub>op</sub> at high temperature 高温交流电压			T <sub>A</sub> (°C)环境温度		AC voltage AC 电压						
			T <sub>A</sub> ≤ 100		V <sub>OP</sub> = 1.0 · V <sub>AC</sub> (continuously)						
			T <sub>A</sub> ≤ 100		V <sub>OP</sub> = 1.25 · V <sub>AC</sub> (1000 h)						
Dissipation factor tan δ 损耗角正切 tan δ			DF ≤ 0.001 (Temperature at 20 ± 1 °C; Frequency at 1 ± 0.1 KHz; Voltage at rms ± 0.1 V)								
Insulation resistance R <sub>ins</sub> or time constant τ = C <sub>R</sub> · R <sub>ins</sub> at ,RH ≤ 65% 20°C 绝缘电阻或时间常数			C <sub>R</sub> ≤ 0.33 uF		C <sub>R</sub> > 0.33 uF			充电电压 100VAC			
			15000 M Ω		5000 M Ω · uf			充电时间 60S			
Passive flammability category to IEC 40 (CO) 752			C								
DC test voltage 直流测试电压			1.6*VR(DC) 10S								
Life test 寿命试验			1000h/105°C/VR · 1.0 每一电容加一47 Ω 的电阻								
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		≤ 5 · 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 · VR, 40°C								
Service life t <sub>SL</sub> 使用寿命			> 30000h at 1.0 · VR, TA ≤ 85°C								
Total failure failure due to variation of parameters 完全失效 故障原因 的变化参数			open circuit 开路								
			Capacitance change 容量变化   ΔC/C		> 10%						
			Dissipation factor tan δ 损耗角正切 tan δ		> 2. upper limit value 上限值						
			Insulation resistance R <sub>ins</sub> 绝缘电阻		< 150 M 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

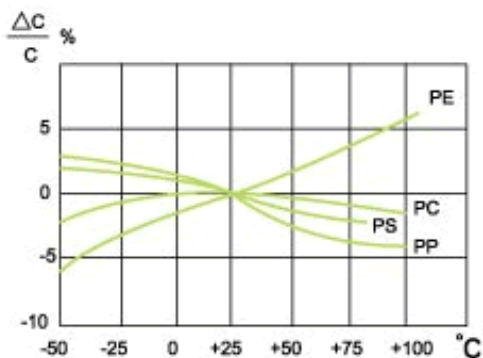
## 1. 焊接温度与时间对比

Soldering Temperature VS Time



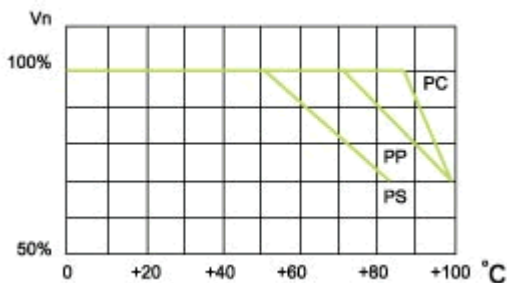
## 2. 温度性能

Temperature Characteristic



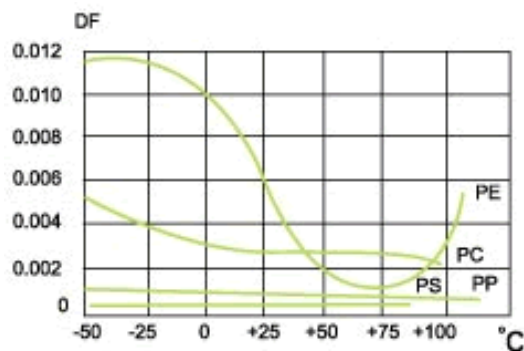
容量变化率与温度的关系

Capacitance vs. Temperature



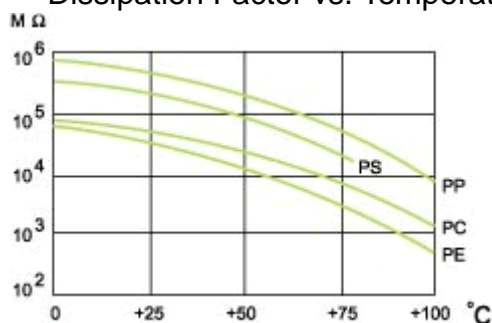
使用电压与温度的关系

Operation voltage vs. Temperature



损耗角正切与温度的关系

Dissipation Factor vs. Temperature

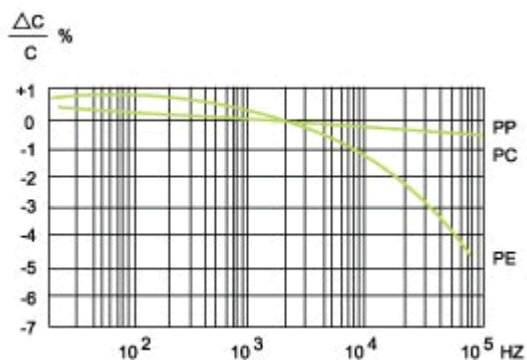


绝缘电阻与温度的关系

(CR value) IR vs. Temperature

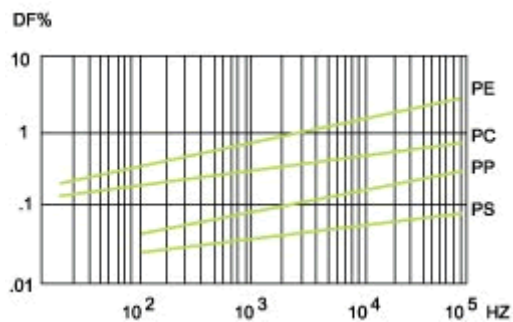
## 3. 频率性能

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