

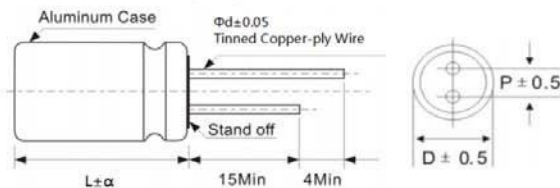
PC Series

- Low ESR, high ripple current, high temperature
- Load life of 2000 hours at 125°C
- RoHS Compliant

规格表 Specifications

项目Items	特性参数Characteristics											
使用温度范围 Category Temperture Range	-55 ~ +125℃											
额定工作电压范围 Rated Voltage Range	2.5 ~ 25V											
静电容量允许偏差 Capacitance tolerance	±20%(M) (at 20℃,120Hz)											
漏电流 Leakage Current	施加额定工作电压2分钟后读数, 小于或等于规格值 (at 20℃) Is0.2CV 或500μA (取大值) Less than or equal to the specified value. After 2 minutes application of rated Voltage at 20℃											
损耗角正切值tanδ Dissipation Factor	Rated voltage (V)	2.5	4	6.3	6.8	7.5	10	12	16	20	25	(at 20℃,120Hz)
	tanδ (Max.)	0.08					0.12					
温度特性 Low Temperture Characteristics (Max.Impedance Ratio)	Z(-25℃)/Z(+20℃)	≦ 1.25				(100KHz)						
	Z(-55℃)/Z(+20℃)	≦ 1.25										
耐久性 Endurance	125℃施加额定工作电压2000小时, 恢复到20℃后, 产品性能应满足以下要求 The specifications listed below shall be satisfied when the capacitors are restored to 20℃ after application of rated voltage for 2000 hours at 125℃.											
	Appearance	No significant damage										
	Capacitance change	≦ ±20% of the initial value										
	D.F.(tanδ)	≦ 150% of the specified value										
	ESR	≦ 150% of the specified value										
	Leakage current	≦ The specified value										
耐湿负荷特性 Damp Heat (Steady State)	在60℃ 温度, 湿度90%~95%RH的环境中, 施加额定电压1000小时后, 恢复到20℃后, 产品性能应满足以下要求 The specifications listed below shall be satisfied when the capacitors are restored to 20℃ after application of rated voltage for 1000 hours at 60℃, 90%~ 95% RH.											
	Appearance	No significant damage										
	Capacitance change	≦ ±20% of the initial value										
	D.F.(tanδ)	≦ 150% of the specified value										
	ESR	≦ 150% of the specified value										
	Leakage current	≦ The specified value										
浪涌电压特性 (Surge Voltage)	浪涌电压=额定电压× 1.15(V) Surge Voltage=Rated voltage × 1.15(V) 在125℃环境中, 按充电30秒; 放电5分30秒, 连续施加浪涌电压1000次(Rc=1kΩ), 待恢复后测试, 应满足以下要求 The capacitors shall be subjected to 1000 cycles each consisting of charge with the surge voltages specified at 125℃ for 30 seconds through a protective resistor (Rc=1kΩ) and discharge for 5 minutes 30 seconds											
	Appearance	No significant damage										
	Capacitance change	≦ ±20% of the initial value										
	D.F.(tanδ)	≦ 150% of the specified value										
	ESR	≦ 150% of the specified value										
	Leakage current	≦ The specified value										

外形图 Dimensions (mm)



ΦD	5	6.3	8	10
P	2.0	2.5	3.5	5.0
Φd	0.5	0.6	0.6	0.6

α	(L < 16)1.0
	(16 ≤ L < 22)1.5
	(L ≥ 22)2.0



PC Series

◆ 纹波电流修正系数 Rated Ripple Current Coefficient

频率Frequency(Hz)	120Hz $\leq f < 1$ kHz	1kHz $\leq f < 10$ kHz	10kHz $\leq f < 100$ kHz	100kHz $\leq f < 500$ kHz
系数 Coefficient	0.05	0.30	0.70	1.00

◆ 尺寸与个技术参数一览表Standard Ratings

Rated voltage (V)	Rated capacitance (uF)	Case size $\Phi D \times L$ (mm)	ESR(m Ω) at 20℃, 100 KHz	Leakage Current (μA)	Rated ripple current (mA _{rms} /125℃/100kHz)
2.5	560	6.3*8	10	500	1700
	680	6.3*8	10	500	1700
	820	8*9	10	500	1929
	1000	8*9	10	500	1929
	1000	8*12	10	500	1929
	1500	8*12	10	750	1929
	2200	10*12.5	9	1100	2100
4	560	6.3*8	12	500	1700
	680	6.3*8	12	544	1700
	680	8*9	10	544	1929
	820	8*9	10	656	1929
	1000	8*9	10	800	1929
	1000	8*12	10	800	1929
	1500	10*12.5	9	1200	2100
6.3	220	5*8	18	500	1500
	220	6.3*8	15	500	1700
	330	6.3*8	15	500	1700
	470	6.3*8	15	592	1700
	560	6.3*8	15	706	1700
	680	8*9	12	857	1929
	820	8*9	12	1033	1929
	1000	8*9	12	1260	1929
	1000	8*12	12	1260	1929
	1000	10*12.5	12	1260	2100
	1500	8*12	12	1890	1929
	1500	10*12.5	12	1890	2100
	2200	10*12.5	12	2772	2100
7.5	220	6.3*8	16	500	1700
	330	6.3*8	16	500	1700
	470	6.3*8	16	705	1700
	560	6.3*8	16	840	1700
	820	8*9	12	1230	1929
	820	8*12	12	1230	1929



PC Series

◆ 尺寸与个技术参数一览表Standard Ratings

Rated voltage (V)	Rated capacitance (μ F)	Case size Φ D×L(mm)	ESR($m\Omega$) at 20℃, 100 KHz	Leakage Current (μ A)	Rated ripple current (mA _{rms} /125℃/100kHz)
7.5	1000	8*12	12	1500	1929
	1000	10*12.5	12	1500	2100
	1500	10*12.5	12	2250	2100
10	220	6.3*8	16	500	1700
	330	6.3*8	16	660	1700
	470	8*9	14	940	1929
	560	8*9	14	1120	1929
	560	8*12	14	1120	1929
	680	8*12	14	1360	1929
	820	8*12	14	1640	1929
	820	10*12.5	14	1640	2100
	1000	10*12.5	14	2000	2100
16	100	6.3*8	20	500	920
	220	6.3*8	18	704	950
	220	8*9	16	704	1850
	330	6.3*9	18	1056	1740
	330	8*9	16	1056	1850
	470	6.3*12	16	1504	1860
	470	8*12	15	1504	1920
	680	6.3*12	18	2176	1860
	820	6.3*14	18	2624	1920
	1000	8*12	15	3200	1920
25	100	5*9	50	500	750
	100	6.3*8	40	500	1100
	150	5*11	40	750	1270
	220	6.3*12	35	1100	1310
	220	8*9	35	1100	1470
	220	8*12	25	1100	1680
	330	6.3*12	35	1650	1470
	330	8*9	35	1650	1470
	330	8*12	25	1650	1680
	470	6.3*14	25	2350	1680
	470	8*12	25	2350	1680
	560	8*12	25	2800	1680
	680	10*12.5	20	3400	1860
	820	10*12.5	20	4100	1860
	1000	10*12.5	20	5000	1860



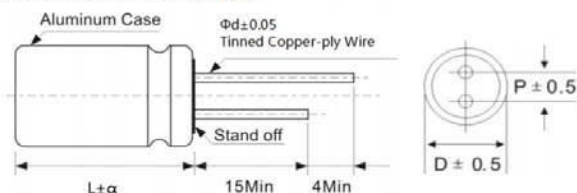
PC Series

- Low ESR, high ripple current, long life
- Load life of 5000 hours at 105°C
- RoHS Compliant

◆ 规格表 Specifications

项目Items	特性参数Characteristics											
使用温度范围 Category Temperature Range	-55 ~ +105℃											
额定工作电压范围 Rated Voltage Range	2.5 ~ 25V											
静电容量允许偏差 Capacitance tolerance	±20%(M) (at 20℃,120Hz)											
漏电流 Leakage Current	施加额定工作电压2分钟后读数, 小于或等于规格值 (at 20℃) ≤0.2CV 或500μA (取大值) Less than or equal to the specified value. After 2 minutes application of rated Voltage at 20℃											
损耗角正切值tanδ Dissipation Factor	Rated voltage (V)	2.5	4	6.3	6.8	7.5	10	12	16	20	25	(at 20℃,120Hz)
	tanδ (Max.)	0.08					0.12					
温度特性 Low Temperature Characteristics (Max.Impedance Ratio)	Z(-25℃)/Z(+20℃)	≤ 1.25					(100KHz)					
	Z(-55℃)/Z(+20℃)	≤ 1.25										
耐久性 Endurance	105℃施加额定工作电压5000小时, 恢复到20℃后, 产品性能应满足以下要求 The specifications listed below shall be satisfied when the capacitors are restored to 20℃ after application of rated voltage for 5000 hours at 105℃.											
	Appearance	No significant damage										
	Capacitance change	≤±20% of the initial value										
	D.F.(tanδ)	≤150% of the specified value										
	ESR	≤150% of the specified value										
	Leakage current	≤The specified value										
耐湿负荷特性 Damp Heat (Steady State)	在60℃ 温度, 湿度90%~95%RH的环境中, 施加额定电压1000小时后, 恢复到20℃后, 产品性能应满足以下要求 The specifications listed below shall be satisfied when the capacitors are restored to 20℃ after application of rated voltage for 1000 hours at 60℃, 90%~95% RH.											
	Appearance	No significant damage										
	Capacitance change	≤±20% of the initial value										
	D.F.(tanδ)	≤150% of the specified value										
	ESR	≤150% of the specified value										
	Leakage current	≤The specified value										
浪涌电压特性 (Surge Voltage)	浪涌电压=额定电压×1.15(V) Surge Voltage=Rated voltage×1.15(V) 在105℃环境中, 按充电30秒; 放电5分30秒, 连续施加浪涌电压1000次(Rc=1kΩ), 待恢复后测试, 应满足以下要求 The capacitors shall be subjected to 1000 cycles each consisting of charge with the surge voltages specified at 105℃ for 30 seconds through a protective resistor (Rc=1kΩ) and discharge for 5 minutes 30 seconds											
	Appearance	No significant damage										
	Capacitance change	≤±20% of the initial value										
	D.F.(tanδ)	≤150% of the specified value										
	ESR	≤150% of the specified value										
	Leakage current	≤The specified value										

◆ 外形图 Dimensions (mm)



ΦD	5	6.3	8	10
P	2.0	2.5	3.5	5.0
Φd	0.5	0.6	0.6	0.6

α	(L < 16) 1.0
	(16 ≤ L < 22) 1.5
	(L ≥ 22) 2.0



PC Series

◆ 纹波电流校正系数 Rated Ripple Current Coefficient

频率Frequency(Hz)	120Hz $\leq f < 1$ kHz	1kHz $\leq f < 10$ kHz	10kHz $\leq f < 100$ kHz	100kHz $\leq f < 500$ kHz
系数 Coefficient	0.05	0.30	0.70	1.00

◆ 尺寸与个技术参数一览表Standard Ratings

Rated voltage (V)	Rated capacitance (μ F)	Case size $\Phi D \times L$ (mm)	ESR($m\Omega$) at 20°C, 100 KHz	Leakage Current (μ A)	Rated ripple current (mA _{rms} /105°C/100kHz)
2.5	560	5*8	15	500	2900
	560	6.3*8	15	500	3500
	680	6.3*8	15	500	3500
	680	8*9	12	500	5200
	820	6.3*8	15	500	3500
	820	8*9	12	500	5200
	1000	8*9	12	500	5500
	1000	8*12	12	500	5500
	1200	8*9	12	600	5500
	1200	8*12	12	600	5500
	1500	8*12	12	750	5500
4	560	6.3*8	15	500	3100
	560	8*9	12	500	5100
	680	6.3*8	15	544	3500
	680	8*9	12	544	5100
	820	6.3*9	15	656	4100
	820	8*9	12	656	5100
	1000	6.3*12	15	800	4100
	1000	8*9	12	800	5100
	1200	6.3*12	15	960	4500
	1200	8*9	12	960	5100
6.3	220	5*8	18	500	2690
	270	5*8	18	500	2690
	330	5*8	18	500	2690
	330	6.3*8	15	500	3100
	390	5*9	16	500	3100
	390	6.3*8	15	500	3100
	470	5*9	16	592	3300
	470	6.3*8	15	592	4100
	560	6.3*8	15	706	4100
	560	8*9	12	706	5100
	680	6.3*8	15	857	4100
	680	8*9	12	857	5100



PC Series

◆ 尺寸与个技术参数一览表Standard Ratings

Rated voltage (V)	Rated capacitance (μ F)	Case size Φ D×L(mm)	ESR($m\Omega$) at 20℃, 100 KHz	Leakage Current (μ A)	Rated ripple current (mA _{rms} /105℃/100kHz)
6.3	820	6.3*9	15	1033	4500
	820	6.3*12	15	1033	4800
	820	8*9	12	1033	5100
	1000	6.3*12	14	1260	4800
	1000	8*9	12	1260	5100
	1000	8*12	12	1260	5500
	1200	8*9	12	1512	5100
	1200	8*12	12	1512	5500
	1500	8*12	12	1890	5500
	1500	10*12.5	12	1890	5900
	2200	10*12.5	12	2772	5900
7.5	270	5*8	18	500	2690
	330	6.3*8	16	500	3100
	390	6.3*8	16	585	3500
	470	6.3*8	16	705	3500
	560	6.3*8	16	840	3500
	680	6.3*12	16	1020	3800
	680	8*9	12	1020	4800
	820	6.3*12	16	1230	3800
	820	8*9	12	1230	4800
	1000	8*9	12	1500	4800
	1000	8*12	12	1500	5100
	1200	8*12	12	1800	5100
	1200	10*12.5	12	1800	5500
	1500	10*12.5	12	2250	5500
10	220	5*8	20	500	2200
	220	6.3*8	16	500	2900
	270	6.3*8	16	540	2900
	330	6.3*8	16	660	3100
	330	8*9	14	660	4800
	390	6.3*8	16	780	3100
	390	6.3*12	16	780	3500
	470	6.3*8	16	940	3100
	470	8*9	14	940	4800
	560	6.3*12	16	1120	3500
	560	8*9	14	1120	4800



PC Series

◆ 尺寸与个技术参数一览表Standard Ratings

Rated voltage (V)	Rated capacitance (uF)	Case size ΦD×L(mm)	ESR(mΩ) at 20℃, 100 KHz	Leakage Current (μA)	Rated ripple current (mAmps/105℃/100kHz)
10	680	6.3*12	16	1360	3500
	680	8*9	14	1360	4800
	820	8*9	14	1640	4800
	820	8*12	14	1640	5100
	1000	8*12	14	2000	5100
	1000	10*12.5	14	2000	5500
	1200	10*12.5	14	2400	5500
	1500	10*12.5	14	3000	5500
12	220	5*9	20	528	2690
	220	6.3*8	18	528	3160
	270	6.3*8	18	648	3160
	330	6.3*8	18	792	3200
	390	6.3*8	18	936	3200
	470	6.3*12	18	1128	3500
	470	8*9	15	1128	4100
	560	6.3*12	18	1344	3500
	560	8*9	15	1344	4100
	680	8*9	15	1632	4100
	820	8*12	15	1968	4500
	1000	8*12	15	2400	4500
	1000	10*12.5	12	2400	5200
	1200	10*12.5	12	2880	5200
	1500	10*12.5	12	3600	5200
16	100	5*8	25	500	2100
	150	5*8	25	500	2100
	150	6.3*8	20	500	2690
	180	5*9	22	576	2690
	180	6.3*8	20	576	2900
	220	6.3*8	18	704	3100
	220	6.3*12	18	704	3500
	220	8*9	15	704	4100
	270	6.3*8	18	864	3100
	270	8*9	15	864	4100
	270	8*12	15	864	4500
	330	6.3*8	18	1056	3100
	330	6.3*12	18	1056	4100



PC Series

◆ 尺寸与个技术参数一览表Standard Ratings

Rated voltage (V)	Rated capacitance (uF)	Case size ΦD×L(mm)	ESR(mΩ) at 20℃,100 KHz	Leakage Current (μA)	Rated ripple current (mA _{rms} /105℃/100kHz)
16	330	8*9	15	1056	4100
	470	6.3*12	18	1504	3500
	470	8*9	15	1504	4100
	560	6.3*12	18	1792	3500
	560	8*9	15	1792	4100
	680	8*12	15	2176	4500
	820	8*12	15	2624	4500
	1000	10*12.5	14	3200	5200
25	68	6.3*8	40	500	2100
	68	8*9	25	500	3500
	82	6.3*8	40	500	2150
	82	8*9	30	500	3800
	100	6.3*8	40	500	2200
	100	8*9	30	500	3900
	100	8*12	25	500	4200
	150	8*9	30	750	3900
	150	8*12	25	750	4200
	180	8*12	25	900	4200
	220	8*12	25	1100	4200
	270	10*12.5	20	1350	4800
	330	10*12.5	20	1650	4800
	470	10*12.5	20	2350	4800



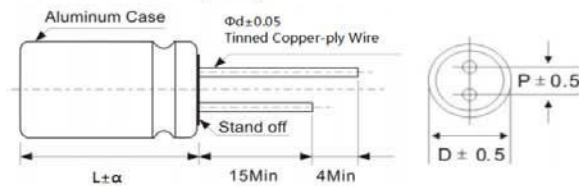
PC Series

- Low ESR, high ripple current, high voltage
- Load life of 2000 hours at 105°C
- RoHS Compliant

◆ 规格表 Specifications

项目Items	特性参数Characteristics		
使用温度范围 Category Temperature Range	-55 ~ +105℃		
额定工作电压范围 Rated Voltage Range	35 ~ 160V		
静电容量允许偏差 Capacitance tolerance	±20%(M) (at 20℃,120Hz)		
漏电流 Leakage Current	施加额定工作电压2分钟后读数, 小于或等于规格值 (at 20℃) I≤0.1CV 或299μA (取大值) Less than or equal to the specified value. After 2 minutes application of rated Voltage at 20℃		
损耗角正切值tanδ Dissipation Factor	Rated voltage (V)	35~160	(at 20℃,120Hz)
	tanδ (Max.)	0.12	
温度特性 Low Temperature Characteristics (Max.Impedance Ratio)	Z(-25℃)/Z(+20℃)	≦ 1.25	(100KHz)
	Z(-55℃)/Z(+20℃)	≦ 1.25	
耐久性 Endurance	105℃施加额定工作电压2000小时, 恢复到20℃后, 产品性能能满足以下要求 The specifications listed below shall be satisfied when the capacitors are restored to 20℃ after application of rated voltage for 2000 hours at 105℃.		
	Appearance	No significant damage	
	Capacitance change	≦ ±20% of the initial value	
	D.F.(tanδ)	≦ 150% of the specified value	
	ESR	≦ 150% of the specified value	
	Leakage current	≦ The specified value	
耐湿负荷特性 Damp Heat (Steady State)	在60℃ 温度, 湿度90%~95%RH的环境中, 施加额定电压1000小时后, 恢复到20℃后, 产品性能能满足以下要求 The specifications listed below shall be satisfied when the capacitors are restored to 20℃ after application of rated voltage for 1000 hours at 60℃, 90%~ 95% RH.		
	Appearance	No significant damage	
	Capacitance change	≦ ±20% of the initial value	
	D.F.(tanδ)	≦ 150% of the specified value	
	ESR	≦ 150% of the specified value	
	Leakage current	≦ The specified value	
浪涌电压特性 (Surge Voltage)	浪涌电压=额定电压× 1.15(V) Surge Voltage=Rated voltage × 1.15(V) 在105℃环境中, 按充电30秒; 放电5分30秒, 连续施加浪涌电压1000次(Rc=1kΩ), 待恢复后测试, 应满足以下要求 The capacitors shall be subjected to 1000 cycles each consisting of charge with the surge voltages specified at 105℃ for 30 seconds through a protective resistor (Rc=1kΩ) and discharge for 5 minutes 30 seconds		
	Appearance	No significant damage	
	Capacitance change	≦ ±20% of the initial value	
	D.F.(tanδ)	≦ 150% of the specified value	
	ESR	≦ 150% of the specified value	
	Leakage current	≦ The specified value	

◆ 外形图 Dimensions (mm)



ΦD	5	6.3	8	10
P	2.0	2.5	3.5	5.0
Φd	0.5	0.6	0.6	0.6

α	(L < 16) 1.0
	(16 ≤ L < 22) 1.5
	(L ≥ 22) 2.0



PC Series

◆ 纹波电流补正系数 Rated Ripple Current Coefficient

频率Frequency(Hz)	120Hz $\leq f < 1$ kHz	1kHz $\leq f < 10$ kHz	10kHz $\leq f < 100$ kHz	100kHz $\leq f < 500$ kHz
系数 Coefficient	0.05	0.30	0.70	1.00

◆ 尺寸与个技术参数一览表Standard Ratings

Rated voltage (V)	Rated capacitance (μ F)	Case size $\Phi D \times L$ (mm)	ESR($m\Omega$) at 20°C, 100 KHz	Leakage Current (μ A)	Rated ripple current (mA _{rms} /105°C/100kHz)
35	10	5*8	120	299	1100
	22	5*8	120	299	1100
	33	5*8	120	299	1100
	47	5*8	120	299	1100
	47	6.3*8	80	299	1350
	68	5*8	120	299	1100
	68	6.3*8	70	299	1350
	100	5*11	120	350	1500
	100	6.3*7	80	350	1200
	100	6.3*8	50	350	1500
	100	8*9	40	350	1700
	150	8*9	40	525	1700
	220	6.3*12	40	770	1700
	220	8*9	40	770	1700
	220	8*12	35	770	2500
	330	8*12	35	1155	2500
	470	10*12.5	30	1645	2900
	560	10*12.5	30	1960	2900
50	10	5*8	120	299	550
	22	5*8	120	299	550
	22	6.3*8	100	299	850
	33	5*9	120	299	650
	33	6.3*8	100	299	850
	47	5*11	100	299	850
	47	6.3*8	80	299	900
	47	6.3*12	70	299	1150
	47	8*9	60	299	1150
	100	6.3*12	50	500	1150
	100	8*9	50	500	1150
	100	8*12	40	500	1380
	150	8*12	40	750	1380
	220	10*12.5	35	1100	1650
	330	10*15	35	1650	2450



PC Series

◆ 尺寸与个技术参数一览表Standard Ratings

Rated voltage (V)	Rated capacitance (μ F)	Case size Φ D×L(mm)	ESR(m Ω) at 20℃,100 KHz	Leakage Current (μ A)	Rated ripple current (mA _{rms} /105℃/100kHz)
63	10	5*8	120	299	500
	22	5*11	120	299	650
	22	6.3*8	100	299	750
	33	6.3*8	100	299	750
	47	6.3*12	70	299	950
	47	8*9	60	299	950
	82	8*12	45	517	1300
	82	10*12.5	38	517	1800
	100	8*12	45	630	1300
	100	10*12.5	38	630	1800
	220	10*12.5	35	1386	1800
80	10	6.3*8	120	299	550
	15	6.3*8	120	299	550
	22	8*9	80	299	1100
	22	8*12	60	299	1300
	33	10*12.5	45	299	1700
	39	10*12.5	45	312	1700
	47	8*12	60	376	1300
	47	10*12.5	45	376	1800
	56	10*12.5	45	448	1800
	82	10*12.5	45	656	1800
	100	10*12.5	45	800	1800
100	10	6.3*8	120	299	550
	22	6.3*12	90	299	820
	22	8*9	90	299	850
	33	8*12	70	330	1190
	47	10*12.5	60	470	1550
	100	10*15	50	1000	1790
160	4.7	8*9	350	299	550
	10	8*12	250	299	750
	15	8*12	250	299	750
	15	10*10	300	299	650
	18	10*12.5	200	299	950
	22	10*12.5	200	352	950



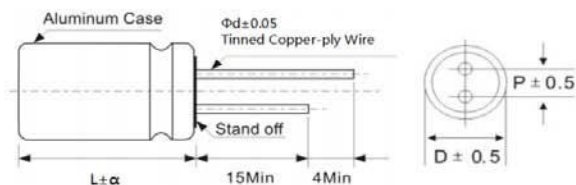
PC Series

- Low ESR, high ripple current, high voltage, high temperature
- Load life of 2000 hours at 125°C
- RoHS Compliant

◆ 规格表 Specifications

项目Items	特性参数Characteristics		
使用温度范围 Category Temperature Range	-55 ~ +125℃		
额定工作电压范围 Rated Voltage Range	35 ~ 160V		
静电容量允许偏差 Capacitance tolerance	±20%(M) (at 20℃, 120Hz)		
漏电流 Leakage Current	施加额定工作电压2分钟后读数, 小于或等于规格值 (at 20℃) ≤0.1CV 或299μA (取大值) Less than or equal to the specified value. After 2 minutes application of rated Voltage at 20℃		
损耗角正切值tanδ Dissipation Factor	Rated voltage (V)	35~160	(at 20℃, 120Hz)
	tanδ (Max.)	0.12	
温度特性 Low Temperature Characteristics (Max.Impedance Ratio)	Z(-25℃)/Z(+20℃)	≦ 1.25	(100KHz)
	Z(-55℃)/Z(+20℃)	≦ 1.25	
耐久性 Endurance	125℃施加额定工作电压2000小时, 恢复到20℃后, 产品性能应满足以下要求 The specifications listed below shall be satisfied when the capacitors are restored to 20℃ after application of rated voltage for 2000 hours at 125℃.		
	Appearance	No significant damage	
	Capacitance change	≦±20% of the initial value	
	D.F.(tanδ)	≦ 150% of the specified value	
	ESR	≦ 150% of the specified value	
	Leakage current	≦ The specified value	
耐湿负荷特性 Damp Heat (Steady State)	在60℃ 温度, 湿度90%~95%RH的环境中, 施加额定电压1000小时后, 恢复到20℃后, 产品性能应满足以下要求 The specifications listed below shall be satisfied when the capacitors are restored to 20℃ after application of rated voltage for 1000 hours at 60℃, 90%~ 95% RH.		
	Appearance	No significant damage	
	Capacitance change	≦±20% of the initial value	
	D.F.(tanδ)	≦ 150% of the specified value	
	ESR	≦ 150% of the specified value	
	Leakage current	≦ The specified value	
浪涌电压特性 (Surge Voltage)	浪涌电压=额定电压× 1.15(V) Surge Voltage=Rated voltage × 1.15(V) 在125℃环境中, 按充电30秒; 放电5分30秒, 连续施加浪涌电压1000次(Rc=1kΩ), 待恢复后测试, 应满足以下要求 The capacitors shall be subjected to 1000 cycles each consisting of charge with the surge voltages specified at 125℃ for 30 seconds through a protective resistor (Rc=1kΩ) and discharge for 5 minutes 30 seconds		
	Appearance	No significant damage	
	Capacitance change	≦±20% of the initial value	
	D.F.(tanδ)	≦ 150% of the specified value	
	ESR	≦ 150% of the specified value	
	Leakage current	≦ The specified value	

◆ 外形图 Dimensions (mm)



ΦD	5	6.3	8	10
P	2.0	2.5	3.5	5.0
Φd	0.5	0.6	0.6	0.6

α	(L < 16)1.0
	(16 ≤ L < 22)1.5
	(L ≥ 22)2.0



PC Series

◆ 纹波电流补正系数 Rated Ripple Current Coefficient

频率Frequency(Hz)	120Hz $\leq f < 1$ kHz	1kHz $\leq f < 10$ kHz	10kHz $\leq f < 100$ kHz	100kHz $\leq f < 500$ kHz
系数 Coefficient	0.05	0.30	0.70	1.00

◆ 尺寸与个技术参数一览表Standard Ratings

Rated voltage (V)	Rated capacitance (uF)	Case size $\Phi D \times L$ (mm)	ESR(m Ω) at 20 $^{\circ}$ C, 100 KHz	Leakage Current (μ A)	Rated ripple current (mA _{rms} /125 $^{\circ}$ C/100kHz)
35	68	6.3*8	70	299	790
	100	6.3*8	50	350	860
	100	6.3*12	60	350	1040
	100	8*9	40	350	1150
	220	8*12	35	770	1440
	220	10*12.5	30	770	1700
	330	10*12.5	30	1155	1700
50	10	5*8	120	299	400
	22	6.3*8	100	299	500
	47	6.3*12	60	299	750
	47	8*12	40	299	860
	100	8*12	40	500	860
	100	10*12.5	35	500	1210
	220	10*12.5	35	1100	1210
63	10	6.3*8	100	299	400
	22	6.3*8	100	299	400
	47	8*9	55	299	630
	47	8*12	40	299	750
	100	8*12	40	630	820
	100	10*12.5	38	630	1040
80	22	6.3*12	80	299	650
	33	8*9	70	299	650
	47	8*12	45	299	1040
	56	10*12.5	45	448	1040
100	10	8*9	90	299	550
	15	8*12	70	299	680
	22	8*12	70	299	750
	33	10*12.5	60	330	900
160	4.7	8*9	350	299	450
	10	8*12	250	299	550
	15	10*10	300	299	500
	18	10*12.5	200	299	750
	22	10*12.5	200	352	750



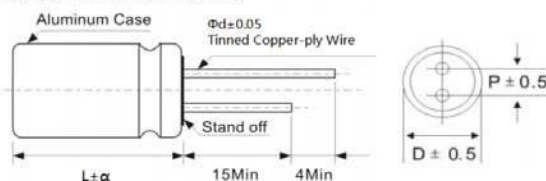
PC Series

- Low ESR, high ripple current, high voltage, long life
- Load life of 5000 hours at 105°C
- RoHS Compliant

◆ 规格表 Specifications

项目Items	特性参数Characteristics		
使用温度范围 Category Temperture Range	-55 ~ +105℃		
额定工作电压范围 Rated Voltage Range	35 ~ 160V		
静电容量允许偏差 Capacitance tolerance	±20%(M) (at 20℃,120Hz)		
漏电流 Leakage Current	施加额定工作电压2分钟后读数, 小于或等于规格值 (at 20℃) Is0.1CV 或299μA (取大值) Less than or equal to the specified value. After 2 minutes application of rated Voltage at 20℃		
损耗角正切值tanδ Dissipation Factor	Rated voltage (V)	35~100	(at 20℃,120Hz)
	tanδ (Max.)	0.12	
温度特性 Low Temperture Characteristics (Max.Impedance Ratio)	Z(-25℃)/Z(+20℃)	≦ 1.25	(100KHz)
	Z(-55℃)/Z(+20℃)	≦ 1.25	
耐久性 Endurance	105℃施加额定工作电压5000小时, 恢复到20℃后, 产品性能应满足以下要求 The specifications listed below shall be satisfied when the capacitors are restored to 20℃ after application of rated voltage for 5000 hours at 105℃.		
	Appearance	No significant damage	
	Capacitance change	≦±20% of the initial value	
	D.F.(tanδ)	≦150% of the specified value	
	ESR	≦150% of the specified value	
	Leakage current	≦The specified value	
耐湿负荷特性 Damp Heat (Steady State)	在60℃ 温度, 湿度90%~95%RH的环境中, 施加额定电压1000小时后, 恢复到20℃后, 产品性能应满足以下要求 The specifications listed below shall be satisfied when the capacitors are restored to 20℃ after application of rated voltage for 1000 hours at 60℃,90%~ 95% RH.		
	Appearance	No significant damage	
	Capacitance change	≦±20% of the initial value	
	D.F.(tanδ)	≦150% of the specified value	
	ESR	≦150% of the specified value	
	Leakage current	≦The specified value	
浪涌电压特性 (Surge Voltage)	浪涌电压=额定电压× 1.15(V) Surge Voltage=Rated voltage × 1.15(V) 在105℃环境中, 按充电30秒; 放电5分30秒, 连续施加浪涌电压1000次(Rc=1kΩ), 待恢复后测试, 应满足以下要求 The capacitors shall be subjected to 1000 cycles each consisting of charge with the surge voltages specified at 105℃ for 30 seconds through a protective resistor (Rc=1kΩ) and discharge for 5 minutes 30 seconds		
	Appearance	No significant damage	
	Capacitance change	≦±20% of the initial value	
	D.F.(tanδ)	≦150% of the specified value	
	ESR	≦150% of the specified value	
	Leakage current	≦The specified value	

◆ 外形图Dimensions (mm)



ΦD	5	6.3	8	10
P	2.0	2.5	3.5	5.0
Φd	0.5	0.6	0.6	0.6

α	(L < 16)1.0
	(16 ≤ L < 22)1.5
	(L ≥ 22)2.0



PC Series

◆ 纹波电流修正系数 Rated Ripple Current Coefficient

频率Frequency(Hz)	120Hz $\leq f < 1$ kHz	1kHz $\leq f < 10$ kHz	10kHz $\leq f < 100$ kHz	100kHz $\leq f < 500$ kHz
系数 Coefficient	0.05	0.30	0.70	1.00

◆ 尺寸与个技术参数一览表Standard Ratings

Rated voltage (V)	Rated capacitance (uF)	Case size $\Phi D \times L$ (mm)	ESR(m Ω) at 20℃, 100 KHz	Leakage Current (uA)	Rated ripple current (mA _{rms} /105℃/100kHz)
35	10	5*8	120	299	1100
	22	5*8	120	299	1100
	33	5*8	120	299	1100
	47	5*8	120	299	1100
	47	6.3*8	80	299	1350
	68	5*8	120	299	1100
	68	6.3*8	70	299	1350
	100	5*11	120	350	1500
	100	6.3*7	80	350	1200
	100	6.3*8	50	350	1500
	100	8*9	40	350	1700
	150	8*9	40	525	1700
	220	6.3*12	40	770	1700
	220	8*9	40	770	1700
	220	8*12	35	770	2500
	330	8*12	35	1155	2500
	330	10*12.5	30	1155	2900
	470	10*12.5	30	1645	2900
50	560	10*12.5	30	1960	2900
	10	5*8	120	299	550
	22	5*8	120	299	550
	22	6.3*8	100	299	850
	33	5*9	120	299	650
	33	6.3*8	100	299	850
	47	5*11	100	299	850
	47	6.3*8	80	299	900
	47	6.3*12	70	299	1150
	47	8*9	60	299	1150
	100	6.3*12	50	500	1150
	100	8*9	50	500	1150
	100	8*12	40	500	1380
	150	8*12	40	750	1380
	220	10*12.5	35	1100	1650



PC Series

◆ 尺寸与个技术参数一览表Standard Ratings

Rated voltage (V)	Rated capacitance (uF)	Case size ΦD×L(mm)	ESR(mΩ) at 20℃, 100 KHz	Leakage Current (μA)	Rated ripple current (mA _{rms} /105℃/100kHz)
63	10	5*8	120	299	500
	22	5*11	120	299	650
	22	6.3*8	100	299	750
	33	6.3*8	100	299	750
	47	6.3*12	70	299	950
	47	8*9	60	299	950
	82	8*12	45	517	1300
	82	10*12.5	38	517	1800
	100	8*12	45	630	1300
	100	10*12.5	38	630	1800
	220	10*12.5	35	1386	1800
80	10	6.3*8	120	299	550
	15	6.3*8	120	299	550
	22	8*9	80	299	1100
	22	8*12	60	299	1300
	33	10*12.5	45	299	1700
	39	10*12.5	45	312	1700
	47	8*12	60	376	1300
	47	10*12.5	45	376	1800
	56	10*12.5	45	448	1800
	82	10*12.5	45	656	1800
	100	10*12.5	45	800	1800
100	10	6.3*8	120	299	550
	22	6.3*12	90	299	820
	22	8*9	90	299	850
	33	8*12	70	330	1190
	47	10*12.5	60	470	1550
	100	10*15	50	1000	1790
160	4.7	8*9	350	299	550
	10	8*12	250	299	750
	15	8*12	250	299	750
	15	10*10	300	299	650
	18	10*12.5	200	299	950
	22	10*12.5	200	352	950



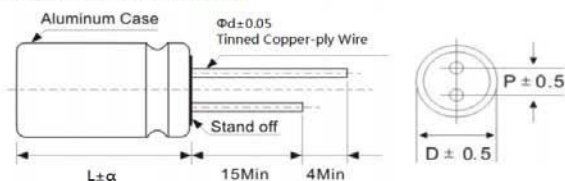
PC Series

- Low ESR, high ripple current, high voltage
- Load life of 2000 hours at 105°C
- RoHS Compliant

◆ 规格表 Specifications

项目Items	特性参数Characteristics		
使用温度范围 Category Temperature Range	-55 ~ +105℃		
额定工作电压范围 Rated Voltage Range	10 ~ 50V		
静电容量允许偏差 Capacitance tolerance	±20%(M) (at 20℃,120Hz)		
漏电流 Leakage Current	施加额定工作电压2分钟后读数, 小于或等于规格值 (at 20℃) I≤0.03CV 或18μA (取大值) Less than or equal to the specified value. After 2 minutes application of rated Voltage at 20℃		
损耗角正切值tanδ Dissipation Factor	Rated voltage (V)	10~50	(at 20℃,120Hz)
	tanδ (Max.)	0.16	
温度特性 Low Temperature Characteristics (Max.Impedance Ratio)	Z(-25℃)/Z(+20℃)	≤0.75 to 2.0	(100KHz)
	Z(-55℃)/Z(+20℃)	≤ 0.75 to 1.5	
耐久性 Endurance	105℃ 施加额定工作电压2000小时, 恢复到20℃后, 产品性能应满足以下要求 The specifications listed below shall be satisfied when the capacitors are restored to 20℃ after application of rated voltage for 2000 hours at 105℃.		
	Appearance	No significant damage	
	Capacitance change	≤±30% of the initial value	
	D.F.(tanδ)	≤200% of the specified value	
	ESR	≤200% of the specified value	
	Leakage current	≤ The specified value	
耐湿负荷特性 Damp Heat (Steady State)	在60℃ 温度, 湿度90%~95%RH的环境中, 施加额定电压1000小时后, 恢复到20℃后, 产品性能应满足以下要求 The specifications listed below shall be satisfied when the capacitors are restored to 20℃ after application of rated voltage for 1000 hours at 60℃, 90%~ 95% RH.		
	Appearance	No significant damage	
	Capacitance change	≤±30% of the initial value	
	D.F.(tanδ)	≤200% of the specified value	
	ESR	≤200% of the specified value	
	Leakage current	≤ The specified value	
浪涌电压特性 (Surge Voltage)	浪涌电压=额定电压× 1.25(V) Surge Voltage=Rated voltage × 1.25(V) 在105℃ 环境中, 按充电30秒; 放电5分30秒, 连续施加浪涌电压1000次(Rc=1kΩ), 待恢复后测试, 应满足以下要求 The capacitors shall be subjected to 1000 cycles each consisting of charge with the surge voltages specified at 105℃ for 30 seconds through a protective resistor (Rc=1kΩ) and discharge for 5 minutes 30 seconds		
	Appearance	No significant damage	
	Capacitance change	≤±30% of the initial value	
	D.F.(tanδ)	≤200% of the specified value	
	ESR	≤200% of the specified value	
	Leakage current	≤ The specified value	

◆ 外形图 Dimensions (mm)



ΦD	5	6.3	8	10
P	2.0	2.5	3.5	5.0
Φd	0.5	0.6	0.6	0.6

α	L+1.5Max
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PC Series

◆ 纹波电流补正系数 Rated Ripple Current Coefficient

频率Frequency(Hz)	120Hz $\leq f < 1$ kHz	1kHz $\leq f < 10$ kHz	10kHz $\leq f < 100$ kHz	100kHz $\leq f < 500$ kHz
系数 Coefficient	0.05	0.30	0.70	1.00

◆ 尺寸与个技术参数一览表Standard Ratings

Rated voltage (V)	Rated capacitance (uF)	Case size $\Phi D \times L$ (mm)	ESR(m Ω) at 20°C,100 KHz	Leakage Current (μ A)	Rated ripple current (mAmps/105°C/100kHz)
10	100	6.3*8	40	30	2000
	220	6.3*8	40	30	2000
	330	6.3*8	40	99	2000
	470	8*9	25	141	2200
	680	8*12	25	204	2690
	820	8*12	25	820	2690
	1000	10*12.5	15	300	3100
	1500	10*12.5	15	450	3100
16	100	6.3*8	40	48	1500
	220	6.3*8	40	106	1500
	220	8*9	25	106	2000
	330	8*9	25	158	2000
	470	8*12	25	226	2250
	680	8*12	25	326	2250
	820	10*12.5	18	394	2900
	1000	10*12.5	18	480	2900
25	47	6.3*8	50	35	1400
	100	6.3*8	50	75	1500
	100	8*9	30	75	1800
	220	8*12	30	165	2100
	330	8*12	30	248	2100
	330	10*12.5	16	248	2900
	470	10*12.5	16	353	2900
35	47	6.3*8	60	49	1300
	100	8*9	30	105	1800
	100	8*12	30	105	2100
	150	8*12	30	158	2100
	220	8*12	30	231	2100
	220	10*12.5	20	231	2830
	330	10*12.5	20	347	2830



PC Series

◆ 尺寸与个技术参数一览表Standard Ratings

Rated voltage (V)	Rated capacitance (uF)	Case size ΦD×L(mm)	ESR(mΩ) at 20℃, 100 KHz	Leakage Current (μA)	Rated ripple current (mA _{rms} /105℃/100kHz)
50	10	6.3*8	80	18	1200
	22	6.3*8	80	33	1200
	33	6.3*8	70	50	1250
	47	8*9	35	71	1670
	100	8*9	35	150	1670
	100	8*12	35	150	1800
	150	8*12	35	158	1800
	220	10*12.5	25	330	2650