

PA Standard 标准品

- Low ESR, High ripple current.
低阻抗, 高纹波。
- Load life of 2000 hours at 105°C.
105°C 负荷寿命 2000 小时。
- lead free flow soldering condition correspondence.
适用于无铅波峰焊。



Specifications 特性表

Items 项目	Condition 测试条件	Characteristics 主要特性	
Rated Voltage Range 额定工作电压范围(V)	---	2.5 ~ 25V _{dc}	
Category Temperature Range 使用温度范围(°C)	---	-55 ~ +105°C	
Capacitance Tolerance 静电容量允许偏差(%)	120Hz/20°C	±20% (M), at 20°C, 120Hz	
Dissipation Factor (Tanδ, DF) 损耗角正切值(%)	120Hz/20°C	Please see the attached characteristics list.	
Leakage Current (※1) 漏电流	Rated Voltage applied, after 2 minutes 施加额定电压 2 分钟后	Please see the attached characteristics list.	
Equivalent series resistance (ESR) 等效串联电阻 (※2)	100KHz to 300KHz/20°C	Please see the attached characteristics list.	
Temperature Characteristics (Max. Impedance Ratio) 高低温特性阻抗比	Based the value at 100KHz, +20°C 基于 20°C, 100KHz 值	-55°C Z/Z _{20°C}	Less than 1.25
		+105°C Z/Z _{105°C}	Less than 1.25
Endurance 耐久性	105°C, 2000h, Rated Voltage applied 施加额定电压	ΔC/C(※3)	Within ±20% of the initial capacitance value
		DF	150% or less than the initial specified value
		ESR	150% or less than the initial specified value
		LC	less than or equal to the initial specified value
Damp Heat (Steady State) 高温高湿	60°C, 90 to 95%RH, 1000h, No- applied Voltage 不施加电压	ΔC/C	Within ±20% of the initial capacitance value
		DF	150% or less than the initial specified value
		ESR	150% or less than the initial specified value
		LC	less than or equal to the initial specified value
Resistance to Soldering Heat 耐焊接热	Flow method 波峰焊 (260±5°C, 10S)	ΔC/C	Within ±10% of the initial capacitance value(※3)
		DF	130% or less than the initial specified value
		ESR	130% or less than the initial specified value
		LC	less than or equal to the initial specified value

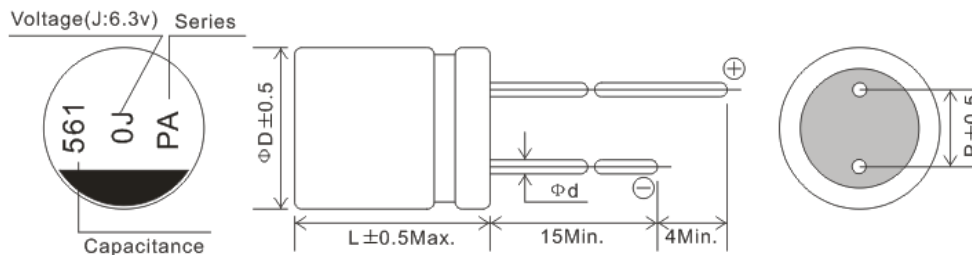
※1 If any doubt arises, measure the leakage current after the voltage treatment of applying DC rated voltage continuously to the capacitor for 120 minutes at 105°C.

如果有任何疑问, 可以在 105°C 温度下对产品施加额定电压 120 分钟后测试。

※2 ESR should be measured at both of the terminal ends closest where the terminals protrude through the plastic platform. ESR 测试时, 请使测试点尽可能地靠近引线弯曲处

※3 Initial value: The value before test of examination of resistance to soldering. 初始值: 实验投入或焊接前的值

Drawing(Unit: mm) 外形图



Size	6.3x6	6.3x9	6.3x10.5	8x7	8x9	8x12	10x8	10x10	10x13
ΦD	6.3	6.3	6.3	8.0	8.0	8.0	10.0	10.0	10.0
L	5.5	8.5	10.0	6.5	8.5	11.5	7.5	9.5	12.5
P	2.5	2.5	2.5	3.5	3.5	3.5	5.0	5.0	5.0
Φd	0.5	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6
C	4.3	5.3	6.6	6.6	8.3	8.3	10.3	10.3	10.3

Rated ripple current multipliers(Unit: mm) 额定纹波修正系数

Frequency 频率 (Hz)	120Hz≤f<1KHz	1KHz≤f<10KHz	10KHz≤f<100KH	100KHz≤f<300K
Coefficient 系数	0.05	0.3	0.7	1.00

Note: All design and specifications are for reference only and is subject to change without prior notice. If any doubt about safety for your application, Please contact us immediately for technical assistance before purchase.

注: 以上所提供的设计及特性参数仅供参考, 任何修改不作预先通知, 如有使用上任何疑问, 请在采购前与我们联系, 以便提供技术上的协助。

PA Series

■ Standard ratings 标准品一览表

Rated voltage 额定电压 (V)(code)	Surge Voltage 浪涌电压 (V)	Rated Capacitance 额定容量 (μ F)	Case Size 产品尺寸 Φ D x L(mm)	DF 损失角正切值 (DF,max)	Leakage Current 漏电流 (mA,max)	ESR(m Ω) (at 100kHz 20 $^{\circ}$ C)	Rated Ripple 纹波电流 (mA,rms,at 105 $^{\circ}$ C)
2.5 (0E)	2.8	330	6.3x9	0.08	500	7	5600
		390	6.3x10.5	0.08	195	20	3200
		560	6.3x9	0.08	500	7	5600
		560	8x9	0.08	280	6	4800
		680	8x9	0.08	340	7	4800
		680	8x12	0.08	340	6	5700
		820	6.3x9	0.08	500	7	5600
		820	8x9	0.08	410	7	5200
		820	8x12	0.08	410	6	6200
		1000	10x13	0.08	500	6	6500
		1200	10x13	0.08	600	8	5300
		1500	8x12	0.08	750	7	6100
1500	10x13	0.08	750	8	5500		
4 (0G)	4.6	270	6.3x9	0.08	500	7	5600
		270	6.3x10.5	0.08	216	20	3200
		390	6.3x10.5	0.08	312	24	3300
		560	8x9	0.08	448	7	5200
		560	8x12	0.08	448	7	5500
		680	8x12	0.08	544	6	6200
		820	10x13	0.08	656	6	6500
		1000	10x13	0.08	800	6	6640
		1200	10x13	0.08	960	8	5600
		220	6.3x10.5	0.08	277	20	3200
6.3 (0J)	7.2	330	6.3x10.5	0.08	416	24	3300
		470	8x9	0.08	592	7	5200
		470	8x12	0.08	592	7	5500
		680	10x13	0.08	857	6	6300
		47	6.3x10.5	0.08	94	25	2900
10 (1A)	11.5	68	6.3x10.5	0.08	136	25	2900
		100	6.3x10.5	0.08	200	25	2900
		150	6.3x10.5	0.08	300	25	2900
		270	8x12	0.08	540	8	4900
		470	10x13	0.08	940	7	5700
		560	10x13	0.08	1120	7	5900
		680	10x13	0.08	1360	7	6100
		100	6.3x10.5	0.08	320	24	2900
16 (1C)	18.4	180	8x12	0.08	576	9	5000
		270	8x12	0.08	864	9	5100
		330	10x13	0.08	1056	9	6100
		470	10x13	0.08	1504	9	6100
		22	6.3x6	0.12	88	50	1700
20 (1D)	23	39	8x7	0.12	156	45	2000
		47	8x7	0.12	188	45	2000
		56	10x8	0.12	224	40	2400
		68	10x8	0.12	272	40	2600
		82	10x8	0.12	328	40	2600
		100	8x12	0.12	400	22	3320
		120	10x10	0.12	480	35	2800
		150	10x13	0.12	600	20	4320
		6.8	6.3x6	0.12	85	80	1200
25 (1E)	28.7	10	6.3x6	0.12	125	65	1500
		10	8x7	0.12	125	60	1500
		22	8x7	0.12	275	50	1800
		47	10x13	0.12	588	30	3000
		56	10x13	0.12	700	28	3800

Note1: Case size Φ D x L(mm), ripple current (mA, rms) at 105 $^{\circ}$ C, 100KHz. 尺寸 Φ D x L(mm), 纹波电流於 105 $^{\circ}$ C, 100KHz

Note2: Produce custom product too, which are not found in these tables. 客户定制品不在标准品一览表内

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