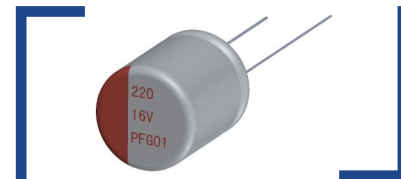


# PF

## 特点 Features

- 保证105°C 5000小时。Endurance : 5000h at 105°C.
- 额定电压范围：2.5~25V。Rated Voltage Range: 2.5~25V.
- 长寿命/低阻抗。Long life 、 Low ESR.
- 满足RoHS。RoHS compliant.



## 主要技术性能 Specifications

项目 Items	特性 Performance Characteristics				
类别温度范围 Category Temperature Range	-55°C ~ +105°C				
额定电压范围 Rated Voltage (U <sub>R</sub> )	2.5V ~ 25V				
标称容量范围 Nominal Capacitance Range(C <sub>R</sub> )	100~ 2200μF			120Hz, +20°C	
标称容量允许偏差 Allowed Capacitance Tolerance(C <sub>T</sub> )	±20% ( M )			120Hz, +20°C	
漏电流 Leakage Current(I <sub>L</sub> )	≤0.2C <sub>R</sub> U <sub>R</sub> 或者100uA 取较大值 ( Whichever is greater )			+20°C After 2 minutes	
损耗角正切值 Tangent of loss angle(Tanδ)	ΦD	Φ5~Φ5.45	Φ6.3(L≤7)	Φ6.3 (L>7)	Φ8~Φ10
	Tanδ	0.10	0.1	0.08	0.08
等效串联电阻 Equivalent Series Resistance(ESR)	参照规格表 Reference parameter table				Max. 100KHz, +20°C
低温特性 Characteristics at low Temperature	$Z_{-25°C}/Z_{+20°C} \leq 1.15$ $Z_{-55°C}/Z_{+20°C} \leq 1.25$				Max 100KHz
耐久性 Load Life	+105°C施加额定电压5000小时后，待温度恢复到20°C后进行测试，电容器应满足以下要求： After 5000 hours' application of rated voltage at 105°C, and then being stabilized at +20°C, the capacitor shall meet the following requirement:				
	容量变化率 Capacitance Change	±20%初始测试值以内 Within ±20% of initial measured value			
	损耗角正切 Tangent of loss angle	≤ 150%初始规定值 Not more than 150% of specified value			
	等效串联电阻 Equivalent Series Resistance	≤ 150%初始规定值 Not more than 150% of specified value			
	漏电流 Leakage Current	≤ 初始规定值 Not more than specified value			
稳态湿热 Damp heat(Steady state)	60°C, 90~95% RH, 不加电压1000小时 60°C, 90~95% RH, 1000 hours, No-applied voltage.				
	容量变化率 Capacitance Change	±20%初始测试值以内 Within ±20% of initial measured value			
	损耗角正切 Tangent of loss angle	≤ 150%初始规定值 Not more than 150% of specified value			
	等效串联电阻 Equivalent Series Resistance	≤ 150%初始规定值 Not more than 150% of specified value			
	漏电流 Leakage Current	≤ 初始规定值 Not more than specified value			
耐焊接热 Resistance to Soldering Heat	( VPS ) (260°C X 10s)				
	容量变化率 Capacitance Change	±10%初始测试值以内 Within ±10% of initial measured value			
	损耗角正切 Tangent of loss angle	≤ 初始规定值 Not more than specified value			
	等效串联电阻 Equivalent Series Resistance	≤ 初始规定值 Not more than specified value			
	漏电流 Leakage Current	≤ 初始规定值 Not more than specified value			

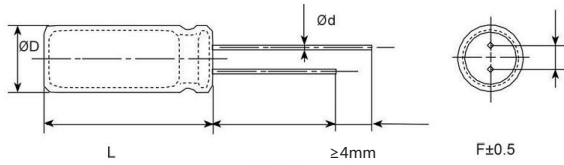
※ 当产生疑问的时候，用以下电压处理后测定。

电压处理: 125°C下，连续加载120 分钟的电压。加载电压为额定电压。

When in doubt, apply the following voltage treatment and measure.

Voltage processing: under the condition of 125 °C ambient temperature, continuous load voltage of 120 minutes. Load voltage is rated voltage.

尺寸图 Dimensional drawings



尺寸表 Size table

单位 Unit: mm

D(+0.5max)	5	5.45	6.3		8	10
F( $\pm 0.5$ )	2.0	2.5	2.5		3.5	5
d( $\pm 0.05$ )	0.5	0.5	0.5	0.6	0.6	0.6
L	+1max					

规格特性表

Table of specifications and characteristics

$U_r$ (V)	$C_r$ ( $\mu\text{F}$ )	$\Phi D \times L$ (mm*mm)	$\text{Tan}\delta$ (120HZ, 20°C)	$I_t$ ( $\mu\text{A}$ )	ESR (m $\Omega$ /at 100k~300kHz 20°C max)	$I_{ACR}$ (mA/rms at 100kHz, 105°C)
2.5	470	6.3×8	0.08	235	7	5400
	560	6.3×8	0.08	280	7	5400
	560	8×8	0.08	280	7	6100
	820	6.3×8	0.08	410	7	5400
	820	8×8	0.08	410	7	6100
	1000	8×8	0.08	500	7	6100
	1000	8×11.5	0.08	500	7	6100
	1000	10×12	0.08	500	7	6100
	1200	8×8	0.08	600	7	6100
	1200	8×11.5	0.08	600	7	6100
	1200	10×12	0.08	600	7	6100
	1500	10×12	0.08	750	7	6100
2200	10×12	0.08	1100	7	6100	
4	470	6.3×8	0.08	376	7	5400
	470	8×8	0.08	376	7	6100
	560	6.3×8	0.08	448	7	5400
	560	8×8	0.08	448	7	6100
	820	8×8	0.08	656	7	6100
	1000	8×8	0.08	800	7	6100
	1200	8×12	0.08	960	7	6100
	1500	10×12	0.08	1200	7	6100
6.3	100	5×7	0.08	126	15	3300
	100	5.45×7	0.08	63	15	2700
	470	6.3×8	0.08	592	8	4700
	560	6.3×8	0.08	706	8	4700
	560	8×8	0.08	706	8	5700
	820	6.3×9	0.08	1033	8	4700
	820	8×8	0.08	1033	8	5700
	820	8×11.5	0.08	1033	8	5700
	1000	8×11.5	0.08	1260	8	6100
	1500	10×12	0.08	1890	8	6100
	2200	10×12	0.08	2772	8	6100

$U_R(V)$	$C_R(\mu F)$	$\Phi D \times L$ (mm*mm)	Tan $\delta$ (120HZ,20°C)	$I_L(\mu A)$	ESR (m $\Omega$ /at 100k~300kHz 20°C max)	$I_{ACR}$ (mA/rms at 100kHz, 105°C)
10	100	5x7	0.1	320	20	3100
	100	6.3x8	0.08	200	10	4100
	330	8x8	0.08	660	10	4700
	390	8x11.5	0.08	780	10	5400
	470	8x11.5	0.08	940	10	5400
	560	10x12	0.08	1120	10	5400
	680	10x12	0.08	1360	10	5400
	1000	10x12	0.08	2000	10	5400
16	220	6.3x8	0.08	704	10	4700
	270	8x8	0.08	864	10	5100
	270	8x11.5	0.08	864	10	5100
	330	6.3x9	0.08	1056	10	4700
	330	8x8	0.08	1056	10	5100
	330	8x11.5	0.08	1056	10	5100
	390	8x11.5	0.08	1248	10	5100
	470	8x8	0.08	1504	10	4900
	470	8x11.5	0.08	1504	10	5100
	470	10x12	0.08	1504	10	5200
	560	8x11.5	0.08	1792	10	5100
	560	10x12	0.08	1792	10	5400
	680	10x12	0.08	2176	10	5400
	1000	10x12.5	0.08	3200	10	5400
20	220	8x8	0.08	880	25	3300
	270	8x11.5	0.08	1080	25	3900
	330	10x12	0.08	1320	25	3900
	470	10x12	0.08	1880	25	3900
25	100	8x11.5	0.08	500	25	3900
	220	10x12	0.08	1100	25	3900
	270	10x12	0.08	1350	25	3900