

# PV

## 特点 Features

- 保证105°C 2000小时。Endurance : 2000h at 105°C.
- 额定电压范围：2.5~25V。Rated Voltage Range: 2.5~25V.
- 适用于表面安装。Use for surface mounted type.
- 标准品。Standard product.
- 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		
标称电容范围 Nominal Capacitance Range(C <sub>R</sub> )	39 ~ 2700μF	120Hz, +20°C	
标称电容允许偏差 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300uA 取较大值 ( Whichever is greater )		+20°C After 2 minutes
损耗角正切值 Tangent of loss angle(Tanδ)	ΦD Tanδ	Φ6.3 0.10	Φ8~Φ10 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 <sub>-25°C</sub> /Z <sub>+20°C</sub> ≤1.15 Z <sub>-55°C</sub> /Z <sub>+20°C</sub> ≤1.25		Max 100KHz
耐久性 Load Life	+105°C施加额定电压2000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 2000 hours' application of rated voltage at 105°C and then being stabilized at +20°C, the capacitor shall meet the following requirement:		
	电容变化率 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	
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.		
	电容变化率 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)		
	电容变化率 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		

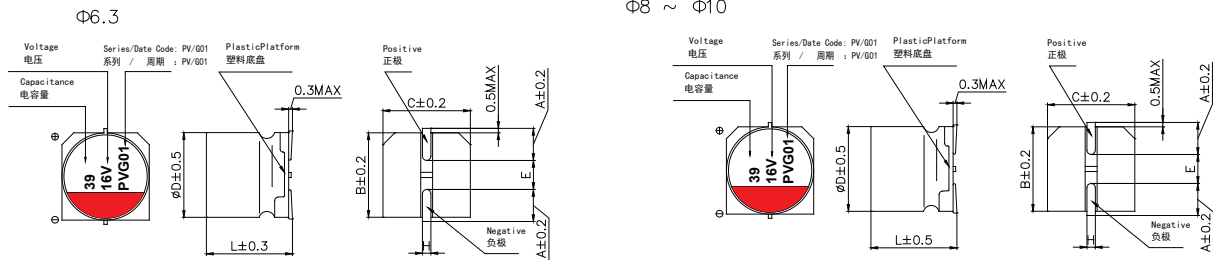
※ 当产生疑问的时候，用以下电压处理后测定。

电压处理: 125°C下，连续加载120 分钟。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

	6.3×5.8	6.3×7.7	8×10.5	8×12.5	10×10.5	10×12.5
A	2.4	2.4	2.9	2.9	3.2	3.2
B	6.6	6.6	8.3	8.3	10.3	10.3
C	6.6	6.6	8.3	8.3	10.3	10.3
E	2.2	2.2	3.1	3.1	4.5	4.5
L	5.8 (±0.3)	7.7 (±0.3)	10.5 (±0.5)	12.5 (±0.5)	10.5 (±0.5)	12.5 (±0.5)
H	0.5~0.8			0.8~1.1		

规格特性表  
Table of specifications and characteristics

$U_r$ (V)	$C_r$ (μF)	$\Phi D \times L$ (mm*mm)	$\tan\delta$ (120Hz, 20°C)	$I_L$ (μA)	ESR (mΩ/at 100k~300kHz 20°C max)	$I_{ACR}$ (mA/rms at 100kHz, 105°C)
2.5	220	6.3×5.8	0.1	300	25	2500
	270	6.3×5.8	0.1	300	25	2500
	330	6.3×5.8	0.1	300	25	2700
	390	6.3×5.8	0.1	300	25	2700
	470	6.3×7.7	0.1	300	20	3700
	560	6.3×7.7	0.1	300	20	3700
	680	8×10.5	0.08	340	15	4100
	820	8×10.5	0.08	410	15	4100
	1000	8×10.5	0.08	500	15	4100
	1200	8×12.5	0.08	600	12	4300
	1500	8×12.5	0.08	750	12	4300
	2200	10×10.5	0.08	1100	12	4700
2700	10×12.5	0.08	1350	12	4700	
4	220	6.3×5.8	0.1	300	25	2500
	270	6.3×5.8	0.1	300	25	2500
	330	6.3×5.8	0.1	300	25	2600
	390	6.3×5.8	0.1	312	25	2600
	470	6.3×7.7	0.1	376	20	3100
	560	6.3×7.7	0.1	448	20	3100
	680	8×10.5	0.08	544	15	4100
	820	8×10.5	0.08	656	15	4100
	1000	8×10.5	0.08	800	15	4100
	1200	8×12.5	0.08	960	12	4700
	1500	8×12.5	0.08	1200	12	4700
	2200	10×10.5	0.08	1760	12	5400
2700	10×12.5	0.08	2160	12	5400	
6.3	100	6.3×5.8	0.1	300	25	2400
	120	6.3×7.7	0.1	300	20	2600
	150	6.3×5.8	0.1	300	25	2400
	220	6.3×5.8	0.1	300	25	2400
	220	6.3×7.7	0.1	300	20	2600
	330	6.3×7.7	0.1	415	20	2600
	470	6.3×7.7	0.1	592	20	2600

U <sub>R</sub> (V)	C <sub>r</sub> (μF)	ΦD×L (mm*mm)	Tanδ (120HZ,20°C)	I <sub>L</sub> ( μA )	ESR (mΩ/at 100k~300kHz 20°C max)	I <sub>ACR</sub> (mA/rms at 100kHz , 105°C)
6.3	680	8×10.5	0.08	856	15	4100
	820	8×10.5	0.08	1033	15	4100
	1000	8×10.5	0.08	1260	15	4100
	1200	8×12.5	0.08	1512	12	4700
	1500	8×12.5	0.08	1890	12	4700
	2200	10×10.5	0.08	2772	12	5400
	2700	10×12.5	0.08	3400	12	5400
10	56	6.3×5.8	0.1	300	30	2100
	68	6.3×5.8	0.1	300	30	2100
	120	6.3×5.8	0.1	300	30	2100
	150	6.3×7.7	0.1	300	25	2500
	220	6.3×7.7	0.1	440	25	2500
	270	6.3×7.7	0.1	540	25	2500
	470	8×10.5	0.08	940	20	3700
	560	8×10.5	0.08	1120	20	3700
	680	8×10.5	0.08	1360	20	3700
	820	8×12.5	0.08	1640	15	4300
	1000	8×12.5	0.08	2000	15	4300
	1200	10×10.5	0.08	2400	15	5200
	1500	10×12.5	0.08	3000	15	5200
16	39	6.3×5.8	0.1	300	40	1600
	47	6.3×5.8	0.1	300	40	1600
	68	6.3×5.8	0.1	300	40	1600
	82	6.3×5.8	0.1	300	40	1600
	100	6.3×5.8	0.1	320	40	1600
	100	6.3×7.7	0.1	320	35	2300
	150	6.3×7.7	0.1	480	35	2300
	330	8×10.5	0.08	1056	30	3700
	470	8×10.5	0.08	1504	30	3700
	560	8×10.5	0.08	1792	30	3700
	680	8×12.5	0.08	2176	25	4100
	820	10×10.5	0.08	2624	25	5100
	1000	10×12.5	0.08	3200	20	5100
20	220	8×10.5	0.08	880	30	3100
	270	8×10.5	0.08	1080	30	3100
	330	8×10.5	0.08	1320	30	3100
	390	8×10.5	0.08	1560	30	3100
	470	8×12.5	0.08	1880	25	3700
	680	10×10.5	0.08	2720	25	4300
	820	10×12.5	0.08	3280	25	4300
25	150	8×10.5	0.08	750	35	2900
	220	8×10.5	0.08	1100	35	2900
	270	8×12.5	0.08	1350	30	3100
	330	10×10.5	0.08	1650	30	3800
	470	10×12.5	0.08	2350	30	3800