

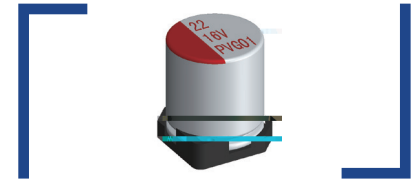


# PV

## Conductive polymer solid aluminum electrolytic capacitor (standard product)- SMD type

### Features

- Use for surface mounted type.
- The product can support lead free-reflow .
- RoHS Adapted to the RoHS directive.



### Specifications

Items	Characteristics										
Operating Temperature Range	-55- +105										
Rated Voltage Range	2.5- 25V										
Nominal Capacitance Range	22- 2700µF										
Nominal Capacitance Tolerance	± 20% 20 120Hz										
Leakage Current	Reference parameter table at 20 , after 2 minutes										
$t_g$ Dissipation Factor (Max)	20 , 120Hz <table border="1"> <tr> <td></td> <td>5</td> <td>6.3(L 7)</td> <td>6.3 (L&gt; 7)</td> <td>8- 10</td> </tr> <tr> <td><math>t_g</math></td> <td>0.10</td> <td>0.10</td> <td>0.08</td> <td>0.08</td> </tr> </table>		5	6.3(L 7)	6.3 (L> 7)	8- 10	$t_g$	0.10	0.10	0.08	0.08
	5	6.3(L 7)	6.3 (L> 7)	8- 10							
$t_g$	0.10	0.10	0.08	0.08							
ESR	Reference parameter table (m at 100k- 300kHz 20 max)										
Characteristics of impedance ratio at high temp. and low temp.	<table border="1"> <tr> <td>100KHZ 20</td> <td>-55</td> <td>Z/Z20</td> <td>0.75 to 1.25</td> </tr> <tr> <td>Based the value at 100KHZ. +20</td> <td>+105</td> <td>Z/Z20</td> <td>0.75 to 1.25</td> </tr> </table>	100KHZ 20	-55	Z/Z20	0.75 to 1.25	Based the value at 100KHZ. +20	+105	Z/Z20	0.75 to 1.25		
100KHZ 20	-55	Z/Z20	0.75 to 1.25								
Based the value at 100KHZ. +20	+105	Z/Z20	0.75 to 1.25								
Load Life	+105 2000 20 After 2000 hours' application of rated voltage at 105 , and then being stabilized at +20 , the capacitors shall meet the following requirement										
	Capacitance Change ± 20% Within ± 20% of the initial value (16V: within ± 25% of the initial value)										
	Dissipation Factor 150% Not more than 150% of the initial specified value										
	Equivalent Series Resistance 150% Not more than 150% of the initial specified value										
	Leakage Current Not more than the initial specified value										
Damp heat(Steady state)	60 , 90- 95% RH, 1000 60 , 90- 95% RH, 1000 hours, No-applied voltage.										
	Capacitance Change ± 20% Within ± 20% of the initial value (16V: within ± 25% of the initial value)										
	Dissipation Factor 150% Not more than 150% of the initial specified value										
	Equivalent Series Resistance 150% Not more than 150% of the initial specified value										
	Leakage Current Not more than the initial specified value										
Resistance to Soldering Heat	VPS (260 X 10s)										
	Capacitance Change ± 10% Within ± 10% of the initial value (16V : within ± 15% of the initial value)										
	Dissipation Factor Not more than the initial specified value										
	Equivalent Series Resistance Not more than the initial specified value										
	Leakage Current Not more than the initial specified value										

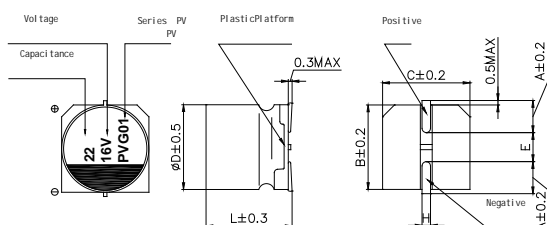
: 125 120

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

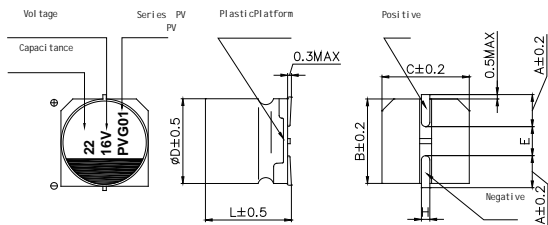
Voltage processing: under the condition of 125 ambient temperature, continuous load voltage of 120 minutes. Load voltage is rated voltage.

### Dimensions

Φ5 ~ Φ6.3



Φ8 ~ Φ10



## Size List

	5×5.8	6.3×5.8	6.3×7.7	8×10.5	8×12.5	10×10.5	10×12.5
A	2.1	2.4	2.4	2.9	2.9	3.2	3.2
B	5.3	6.6	6.6	8.3	8.3	10.3	10.3
C	5.3	6.6	6.6	8.3	8.3	10.3	10.3
E	1.3	2.2	2.2	3.1	3.1	4.5	4.5
F	5.8	5.8	7.7	10.5	12.5	10.5	12.5
H	0.5- 0.8			0.8- 1.1			

## Nominal Capacitance, Rated Voltage, Rated Ripple Current and Case Size Table

Rated Volt. (V)	Capacitance (μF)	Size D×L(mm)	Tan 120HZ,20	LC μA	ESR (mΩ /at 100k-300kHz 20 max)	Rated R. C. (mA/rms at 100kHz 105 °C)
2.5	180	5×5.8	0.1	300	30	2100
		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		3700
	560	6.3×7.7	0.1	300		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		12	4300
	1500	8×12.5	0.08	750	12	4300
		10×10.5	0.08	1100	12	4700
	2700	10×12.5	0.08	1350	12	4700
4	100	5×5.8	0.1	300	30	1800
	150	5×5.8	0.1	300	30	1800
		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	
	390	6.3×5.8	0.1	312	25	
	470	6.3×7.7	0.1	376		3100
	560	6.3×7.7	0.1	448		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
	10×10.5	0.08	1760	12	5400	
	2700	10×12.5	0.08	2160	12	5400
6.3	100	5×5.8	0.1	300	30	1500
	100	6.3×5.8	0.1	300	25	2400
	120	5×5.8	0.1	300	30	1500
	120	6.3×7.7	0.1	300		
	150	6.3×5.8	0.1	300	25	2400
		6.3×5.8	0.1	300	25	2400
		6.3×7.7	0.1	300		
	330	6.3×7.7	0.1	415		
	470	6.3×7.7	0.1	592		
	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



Rated Volt. (V)	Capacitance (µF)	Size D×L(mm)	Tan 120HZ,20	LC µA	ESR (m /at 100k-300kHz 20 max)	Rated R. C. (mA/rms at 100kHz 105 )
6.3	1500	8×12.5	0.08	1890	12	4700
	2700	10×10.5	0.08	2772	12	5400
	2700	10×12.5	0.08	3400	12	5400
10	47	5×5.8	0.1	300	40	1300
	56	5×5.8	0.1	300	40	1300
	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
	150	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		3700
	560	8×10.5	0.08	1120		3700
	680	8×10.5	0.08	1360		3700
	820	8×12.5	0.08	1640	15	4300
	1000	8×12.5	0.08		15	4300
	1200	10×10.5	0.08	2400	15	5200
	1500	10×12.5	0.08	3000	15	5200
16	33	5×5.8	0.1	300	45	1200
	39	5×5.8	0.1	300	45	1200
	39	5×5.8	0.1	300	45	1200
	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		5100	
25	47	6.3×5.8	0.1	300	50	1600
	47	6.3×5.8	0.1	300	50	1600
	56	6.3×5.8	0.1	300	50	1600
	100	6.3×7.7	0.1	400	45	1800
	120	6.3×7.7	0.1	480	45	1800
	120	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
	47	6.3×5.8	0.1	300		1200
	56	6.3×5.8	0.1	300		1200
	56	6.3×7.7	0.1	300	50	1500
82	6.3×7.7	0.1	410	50	1500	
150	8×10.5	0.08	750	35	2900	
150	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	