PV

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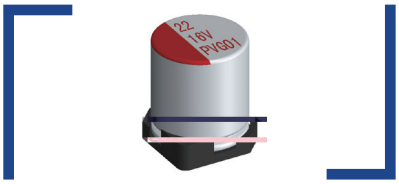
Conductive polymer solid aluminum electrolytic capacitor (standard product)- SMD type

Features

- Use for surface munted 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 2 at 20 , after 2 minutes
tgδ Dissipation Factor (Max)	20 , 120Hz

	Φ5	Φ6.3(L 7)	Φ6.3 (L>7)	Φ8~Φ10
tgδ	0.10	0.10	0.08	0.08

ESR	Reference parameter table (mΩ at 100k~300kHz 20 max)

Characteristics of impedance ratio at high temp. and low temp.	100KHZ 20 Based the value at 100KHZ. +20

-55	Z/Z20	0.75 to 1.25
+105	Z/Z20	0.75 to 1.25

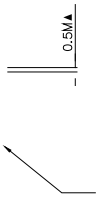
Load Life	+105 2000 20 After 2000 hours ' application of rated voltage at 105 , and then being stabilized at +20 , the capacitors shall meet the following requirement:
Capacitance Change	±20% Within ±20% of the initial value (16V: within ±25% of the initial value)
Dissipation Factor	≤150% Not more than 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



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
.	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
.	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 (uF)	Size ΦD×L(mm)	Tanδ 120HZ,20	LC μA	ESR (mΩ/at 100k~300kHz 20 max)	Rated R. C. (mA/rms at 100kHz 105)
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 (uF)	Size ΦD×L(mm)	Tanδ 120HZ,20	LC μA	ESR (mΩ/at 100k~300kHz 20 max)	Rated R. C. (mA/rms at 100kHz 105)
6.3	1500	8×12.5	0.08	1890	12	4700
		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
		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		5×5.8	0.1	300	45	1200
	33	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
		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
		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	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
		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