# mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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**OS**-CON

### Surface Mount Type

Series : SVPS

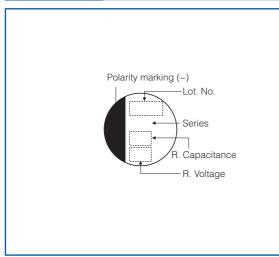


### Features

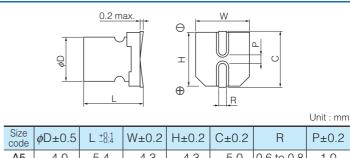
- 105 °C 5000 h
- RoHS compliance, Halogen free

Specifications								
Size code	A5	B6	C6	E7	F8			
Category temperature range	_55 °C to +105 °C							
Rated capacitance range	4 V.DC to 10 V.DC	4 V.DC to 16 V.DC	4 V.DC to 25 V.DC	4 V.DC to 16 V.DC				
Rated capacitance range	10 µF to 33 µF	22 µF to 68 µF	22 µF to 150 µF	10 µF to 270 µF	100 µF to 680 µF			
Capacitance tolerance	±20 % (120 Hz / + 20 °C)							
Leakage current	Please see the attached characteristics list							
Dissipation factor (tan $\delta$ )	Please see the attached characteristics list							
	+105 °C, 5000 h, rated voltage applied (25 V.DC $\rightarrow$ 20 V.DC applied)							
Endurance	Capacitance change	nce change Within ±20 % of the initial value						
Endurance	tan $\delta$	≤ 150 % of the initial limit						
	DC leakage current Within the initial limit							
	+60 °C, 90 % to 95 %, 1000 h, No-applied voltage							
Damp heat	Capacitance change Within ±20 % of the initial value							
(Steady State)	tan $\delta$	≦ 150 % of the initial limit						
	DC leakage current Within the initial limit (after voltage processing)							

#### Marking



#### Dimensions (not to scale)



code	<i>ø</i> D±0.5	L =0.4	W±0.2	H±0.2	C±0.2	K	P±0.2		
A5	4.0	5.4	4.3	4.3	5.0	0.6 to 0.8	1.0		
B6	5.0	5.9	5.3	5.3	6.0	0.6 to 0.8	1.4		
C6	6.3	5.9	6.6	6.6	7.3	0.6 to 0.8	2.1		
E7	8.0	6.9	8.3	8.3	9.0	0.6 to 0.8	3.2		
F8	10.0	7.9	10.3	10.3	11.0	0.6 to 0.8	4.6		
* Externals of figure are the reference.									

# **Panasonic** Conductive Polymer Aluminum Solid Capacitors

Characteristics list											
	Datad	Datad	Case siz	ze (mm)		Specifications			Standard (Reel size : ø380)		
Series	Rated voltage (V.DC)	Rated capacitance (µF)	φD	L	Size code	Ripple <sup>*1</sup> current (mAr.m.s.)	ESR *2 (mΩ max.)	tan $\delta^{*^3}$	LC *4 (µA)	Part number	Min. Packaging Q'ty (pcs)
		33	4.0	5.4	A5	740	200	0.15	66	4SVPS33M	2000
		68	5.0	5.9	B6	1970	30	0.12	300	4SVPS68M	1500
	4.0	150	6.3	5.9	C6	2570	22	0.12	300	4SVPS150M	1000
		270	8.0	6.9	E7	3220	22	0.12	500	4SVPS270M	1000
		680	10.0	7.9	F8	4130	20	0.12	544	4SVPS680M	500
		22	4.0	5.4	A5	740	200	0.12	69.3	6SVPS22M	2000
	6.3	47	5.0	5.9	B6	1970	30	0.12	300	6SVPS47M	1500
		120	6.3	5.9	C6	2570	22	0.12	300	6SVPS120M	1000
		220	8.0	6.9	E7	3220	22	0.12	500	6SVPS220M	1000
		470	10.0	7.9	F8	4130	20	0.12	592	6SVPS470M	500
	10	10	4.0	5.4	A5	700	220	0.10	50	10SVPS10M	2000
		15	4.0	5.4		740	200	0.10	75	10SVPS15M	2000
SVPS		33	5.0	5.9	B6	1100	70	0.12	165	10SVPS33M	1500
		68	6.3	5.9	C6	2200	30	0.12	300	10SVPS68M	1000
		150	8.0	6.9	E7	2760	30	0.12	500	10SVPS150MX	1000
			10.0	7.9	F8	3020	30	0.12	300	10SVPS150M	500
		330	10.0	7.9		3770	24	0.12	660	10SVPS330M	500
	16	22	5.0	5.9	B6	1060	90	0.10	176	16SVPS22M	1500
		39	6.3	5.9	C6	2460	24	0.12	300	16SVPS39M	1000
		82	8.0	6.9	E7	2760	30	0.12	262	16SVPS82M	1000
		100	10.0	7.9	F8	2670	35	0.12	320	16SVPS100M	500
		180	10.0	7.9	ГО	3430	29	0.12	576	16SVPS180M	500
	20	22	6.3	5.9	C6	1450	60	0.10	88	20SVPS22M	1000
		47	8.0	6.9	E7	1890	45	0.12	188	20SVPS47M	1000
	25	10	8.0	6.9		1500	60	0.10	125	25SVPS10M	1000

\*1 Ripple current (100 kHz/ +105 °C ),

: The surface temperature of aluminum case top must not exceed 105 °C. A rise in temperature due to self-heating by ripple current should be factored in. \*2 ESR (100 kHz to 300 kHz/+20 °C) \*3 tan δ (120 Hz/+20 °C) \*4 After 2 minutes

Please refer to each page in this catarog for "Reflow conditions" and "Taping specifications".

Frequency correction factor for ripple current								
Frequency	120 Hz ≦ f < 1 kHz	1 kHz ≦ f < 10 kHz	10 kHz ≦ f < 100 kHz	100 kHz ≦ f < 500 kHz				
Coefficient	0.05	0.3	0.7	1				