**OS**-CON

### Surface Mount Type

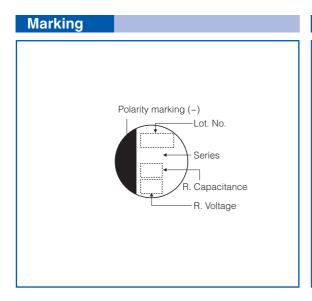
Series : SVPC



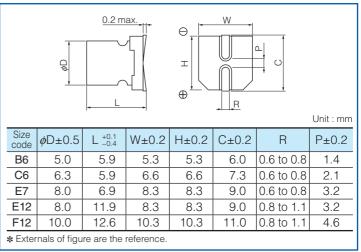
#### Features

- Low ESR (9 m $\Omega$  to 30 m $\Omega$ )
- Large capacitance (2700 µF max.)
- RoHS compliance, Halogen free

Specifications								
Size code	B6	C6	E7	E12	F12			
Category temperature range	–55 °C to +105 °C							
Rated voltage range		2.5 V.DC						
Rated capacitance range	39 µF to 180 µF	68 µF to 560 µF	120 µF to 680 µF	270 µF to 1500 µF	2700 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							
Endurance	+105 °C, 2000 h, rated voltage applied							
	Capacitance change Within ±20 % of the initial value							
	tan $\delta$ $\leq$ 150 % of the initial limit							
	DC leakage current Within the initial limit							
Damp heat (Steady State)	+60 °C, 90 % to 95 %, 1000 h, No-applied voltage							
	Capacitance change Within ±20 % of the initial value							
	tan $\delta$	an $\delta$ $\leq$ 150 % of the initial limit						
	DC leakage current Within the initial limit (after voltage processing)							



#### Dimensions (not to scale)



Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

# **Panasonic** Conductive Polymer Aluminum Solid Capacitors

Characteristics list												
		D.L.L	Case si	ze (mm)			Spe	ecification	S		Standard (Reel size : ø380)	
Series	Rated voltage (V.DC)	Rated capacitance (µF)	φD	L	Size code	Ripple <sup>*1</sup> current (mAr.m.s.)	ES 100 kHz/20 °C (mΩ max.)	SR 300 kHz/20 °C (mΩ max.)	tan $\delta^{*^2}$	LC *³ (µA)	Part number	Min. Packaging Q'ty (pcs)
			5.0	5.9		1970	30	26	0.12	300	2R5SVPC180M	1500
	2.5	180	5.0	5.9	B6	2200	24	20	0.12	300	2R5SVPC180MY	1500
			5.0	5.9		2800	19	16	0.12	300	2R5SVPC180MV	1500
		390	6.3	5.9	C6	2410	25	22	0.12	300	2R5SVPC390M	1000
			6.3 6.3	5.9 5.9		3160	15 16	13 14	0.12	300	2R5SVPC390MV 2R5SVPC560M	1000
		560 680	8.0	5.9 6.9	E7	3500 3370	20	14	0.12	300 500	2R5SVPC560M	1000
		820	8.0	11.9		5380	20	8	0.12	500	2R5SVPC820M	400
		1500	8.0	11.9	E12	5150	10	9	0.15	750	2R5SVPC1500M	400
		2700	10.0	12.6	F12	5070	10	10	0.15	1350	2R5SVPC2700M	400
		2,00	5.0	5.9		1970	30	26	0.12	300	4SVPC150M	1500
		150	5.0	5.9	B6	2240	23	20	0.12	300	4SVPC150MY	1500
			5.0	5.9		2730	20	17	0.12	300	4SVPC150MV	1500
			6.3	5.9		2320	27	23	0.12	300	4SVPC330M	1000
	4.0	330	6.3	5.9	C6	2630	21	18	0.12	300	4SVPC330MY	1000
	4.0		6.3	5.9		3160	15	13	0.12	300	4SVPC330MV	1000
		560	8.0	6.9	E7	3220	22	19	0.12	500	4SVPC560M	1000
			8.0	11.9		5380	9	8	0.15	500	4SVPC560MX	400
		1200	8.0	11.9	E12	4700	12	10	0.15	960	4SVPC1200M	400
		1500	8.0	11.9		4700	12	10	0.15	1200	4SVPC1500M	400
SVPC	6.3	100	5.0	5.9	B6	1970	30	26	0.12	300	6SVPC100M	1500
			5.0	5.9		2150	25	21	0.12	300	6SVPC100MY	1500
		120	5.0 6.3	5.9		2660 2320	21 27	18 23	0.12	300	6SVPC120MV	1500
		220	6.3	5.9 5.9	C6	3160	15	13	0.12	300 300	6SVPC220M 6SVPC220MV	1000
		330	6.3	5.9		3390	17	15	0.12	415	6SVPC330M	1000
		390	8.0	6.9	E7	3220	22	19	0.12	491	6SVPC390M	1000
		820	8.0	11.9	E12	4700	12	10	0.12	1033	6SVPC820M	400
			5.0	5.9		1970	30	26	0.12	300	10SVPC68M	1500
	10	68	5.0	5.9	B6	2540	23	20	0.12	300	10SVPC68MV	1500
		100	6.3	5.9		2320	27	23	0.12	300	10SVPC120M	1000
	10	120	6.3	5.9	C6	2600	22	19	0.12	300	10SVPC120MV	1000
		270	8.0	6.9		3220	22	19	0.12	500	10SVPC270M	1000
		330	8.0	6.9	E7	3460	19	17	0.12	660	10SVPC330M	1000
	16	39	5.0	5.9	B6	1820	35	30	0.12	300	16SVPC39M	1500
			5.0	5.9		2350	27	23	0.12	300	16SVPC39MV	1500
		68	6.3	5.9	C6	2200	30	26	0.12	300	16SVPC68M	1000
			6.3	5.9		2440	25	22	0.12	300	16SVPC68MV	1000
		100	6.3	5.9		2490	24	23	0.12	300	16SVPC100M	1000
		120	8.0	6.9	E7	2900	27	23	0.12	500	16SVPC120M	1000
		150	8.0	6.9	E10	3220	22	21	0.12	500	16SVPC150M	1000
		270	8.0	11.9	E12	4070	16	14	0.15	864	16SVPC270M	400

**\*1** Ripple current (100 kHz/ +105 °C ), **\***2 tan  $\delta$  (120 Hz/+20 °C) **\***3 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				

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

## Guidelines and precautions regarding the technical information and use of our products described in this online catalog.

- If you want to use our products described in this online catalog for applications requiring special qualities or reliability, or for applications where the failure or malfunction of the products may directly jeopardize human life or potentially cause personal injury (e.g. aircraft and aerospace equipment, traffic and transportation equipment, combustion equipment, medical equipment, accident prevention, anti-crime equipment, and/or safety equipment), it is necessary to verify whether the specifications of our products fit to such applications. Please ensure that you will ask and check with our inquiry desk as to whether the specifications of our products.
- The quality and performance of our products as described in this online catalog only apply to our products when used in isolation. Therefore, please ensure you evaluate and verify our products under the specific circumstances in which our products are assembled in your own products and in which our products will actually be used.
- If you use our products in equipment that requires a high degree of reliability, regardless of the application, it is recommended that you set up protection circuits and redundancy circuits in order to ensure safety of your equipment.
- The products and product specifications described in this online catalog are subject to change for improvement without prior notice. Therefore, please be sure to request and confirm the latest product specifications which explain the specifications of our products in detail, before you finalize the design of your applications, purchase, or use our products.
- The technical information in this online catalog provides examples of our products' typical operations and application circuits. We do not guarantee the non-infringement of third party's intellectual property rights and we do not grant any license, right, or interest in our intellectual property.
- If any of our products, product specifications and/or technical information in this online catalog is to be exported or provided to non-residents, the laws and regulations of the exporting country, especially with regard to security and export control, shall be observed.

<Regarding the Certificate of Compliance with the EU RoHS Directive/REACH Regulations>

- The switchover date for compliance with the RoHS Directive/REACH Regulations varies depending on the part number or series of our products.
- When you use the inventory of our products for which it is unclear whether those products are compliant with the RoHS Directive/REACH Regulation, please select "Sales Inquiry" in the website inquiry form and contact us.

We do not take any responsibility for the use of our products outside the scope of the specifications, descriptions, guidelines and precautions described in this online catalog.