Surface Mount Type

OS-CON

Series : SVPC

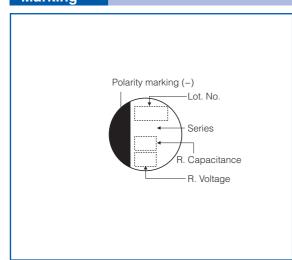


Features

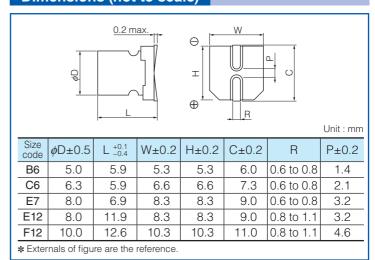
- Low ESR (9 m Ω to 30 m Ω)
- Large capacitance (2700 µF max.)
- RoHS compliance, Halogen free

Specifications								
Size code	В6	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 δ)	Please see the attached characteristics list							
Endurance	+105 °C, 2000 h, rated voltage applied							
	Capacitance change	ce change Within ±20 % of the initial value						
	tan δ	≤ 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 δ	≤ 150 % of the initial limit						
	DC leakage current Within the initial limit (after voltage processing)							

Marking



Dimensions (not to scale)



Panasonic Conductive Polymer Aluminum Solid Capacitors

Characteristics list												
			Case siz	ze (mm)			Spe	ecification	 S		Standard (Reel size : ϕ 380)	
Series	Rated voltage (V.DC)	Rated capacitance (µF)		L	Size code	Ripple*1 current (mAr.m.s.)	ES	SR 300 kHz/20 °C (mΩ max.)	tan δ^{*2}	LC*3 (µA)	Part number	Min. Packaging Q'ty (pcs)
			5.0	5.9	B6	1970	30	26	0.12	300	2R5SVPC180M	1500
		180	5.0	5.9		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
	2.5	560	6.3 6.3	5.9 5.9		3160 3500	15 16	13 14	0.12	300	2R5SVPC390MV 2R5SVPC560M	1000
		680	8.0	6.9	E7	3370	20	17	0.12	500	2R5SVPC680M	1000
		820	8.0	11.9		5380	9	8	0.15	500	2R5SVPC820M	400
		1500	8.0	11.9	E12	5150	10	9	0.15	750	2R5SVPC1500M	400
		2700	10.0	12.6	F12	5070	12	10	0.15	1350	2R5SVPC2700M	400
-			5.0	5.9	B6	1970	30	26	0.12	300	4SVPC150M	1500
		150	5.0	5.9		2240	23	20	0.12	300	4SVPC150MY	1500
			5.0	5.9		2730	20	17	0.12	300	4SVPC150MV	1500
		.0 330	6.3	5.9	C6	2320	27	23	0.12	300	4SVPC330M	1000
	4.0		6.3	5.9		2630	21	18	0.12	300	4SVPC330MY	1000
			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
		1200	8.0	11.9 11.9	E12	5380 4700	9	10	0.15 0.15	500 960	4SVPC560MX 4SVPC1200M	400
		1500	8.0	11.9	C12	4700	12	10	0.15	1200	4SVPC1200M	400
	6.3		5.0	5.9		1970	30	26	0.12	300	6SVPC100M	1500
SVPC		100	5.0	5.9	B6	2150	25	21	0.12	300	6SVPC100MY	1500
		120	5.0	5.9		2660	21	18	0.12	300	6SVPC120MV	1500
		220	6.3	5.9	C6	2320	27	23	0.12	300	6SVPC220M	1000
			6.3	5.9		3160	15	13	0.12	300	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	0.15	1033	6SVPC820M	400
		68	5.0	5.9	В6	1970	30	26	0.12	300	10SVPC68M	1500
			5.0	5.9		2540	23	20	0.12	300	10SVPC68MV	1500
	10	120	6.3 6.3	5.9 5.9	C6	2320 2600	27 22	23 19	0.12	300	10SVPC120M 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		5.0	5.9	B6	1820	35	30	0.12	300	16SVPC39M	1500
		39	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		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 δ (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				



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