OS-CON

Surface Mount Type

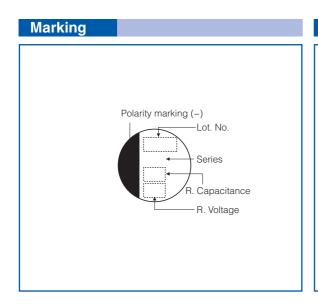
Series : SVF



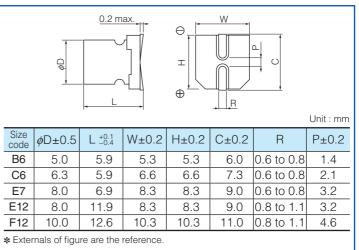
Features

- High voltage (50 V.DC max.)
- Large capacitance (1000 µF max.)
- 125 °C 1000 h
- RoHS compliance, Halogen free

Specifications								
Size code	B6	C6	E7	E12	F12			
Category temperature range	−55 °C to +125 °C							
Rated voltage range	16 V.DC to 25 V.DC 16 V.DC to 50 V.DC							
Rated capacitance range	27 µF to 82 µF	10 µF to 180 µF	18 µF to 270 µF	39 µF to 560 µF	68 µF to 1000 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	+125 °C, 1000 h, rated voltage applied							
	Capacitance change	nge Within ±20 % of the initial value						
	tan δ	≤ 200 % of the initial limit						
	DC leakage current Within the initial limit							
	+60 °C, 90 % to 95 %, 1000 h, No-applied voltage							
Damp heat (Steady State)	Capacitance change Within ±20 % of the initial value							
	tan δ	≤ 150 % of the initial limit						
	DC leakage curren	akage current Within the initial limit (after voltage processing)						



Dimensions (not to scale)



Panasonic Conductive Polymer Aluminum Solid Capacitors

Characteristics list												
	Rated voltage (V.DC)	Rated capacitance (µF)	Case size (mm)			Specifications				Standard (Reel size : ϕ 380)		
Series			φD	L	Size code	Ripple ^{*1} current (mAr.m.s.)	Allowable*1 ripple current (mAr.m.s.)	ESR*2 (mΩ max.)	tan δ^{*^3}	LC *4 (µA)	Part number	Min. Packaging Q'ty (pcs)
20 SVF 25		82	5.0	5.9	B6	940	3000	27	0.12	262	16SVF82M	1500
		180	6.3	5.9	C6	1040	3300	22	0.12	576	16SVF180M	1000
	16	270	8.0	6.9	E7	1040	3300	22	0.12	864	16SVF270M	1000
		560	8.0	11.9	E12	1560	4950	14	0.12	1792	16SVF560M	400
		1000	10.0	12.6	F12	1700	5400	12	0.12	3200	16SVF1000M	400
		56	5.0	5.9	B6	880	2800	30	0.12	224	20SVF56M	1500
		120	6.3	5.9	C6	1010	3200	25	0.12	480	20SVF120M	1000
	20	180	8.0	6.9	E7	1010	3200	25	0.12	720	20SVF180M	1000
		390	8.0	11.9	E12	1560	4950	14	0.12	1560	20SVF390M	400
		560	10.0	12.6	F12	1700	5400	12	0.12	2240	20SVF560M	400
		27	5.0	5.9	B6	770	2450	40	0.12	135	25SVF27M	1500
		47	6.3	5.9	C6	880	2800	30	0.12	235	25SVF47M	1000
		56	6.3	5.9	00	880	2800	30	0.12	280	25SVF56M	1000
	25	82	8.0	6.9	E7	940	3000	28	0.12	410	25SVF82M	1000
		100	8.0	6.9		1010	3200	24	0.12	500	25SVF100M	1000
		180	8.0	11.9	E12	1470	4650	16	0.12	900	25SVF180M	400
		330	10.0	12.6	F12	1580	5000	14	0.12	1650	25SVF330M	400
		22	6.3	5.9	C6	820	2600	35	0.12	154	35SVF22M	1000
	35	39	8.0	6.9	E7	880	2800	30	0.12	273	35SVF39M	1000
		82	8.0	11.9	E12	1260	4000	20	0.12	574	35SVF82M	400
		120	10.0	12.6	F12	1390	4400	18	0.12	840	35SVF120M	400
		10	6.3	5.9	C6	790	2500	40	0.12	100	50SVF10M	1000
	50	18	8.0	6.9	E7	850	2700	35	0.12	180	50SVF18M	1000
		39	8.0	11.9	E12	1200	3800	25	0.12	390	50SVF39M	400
		68	10.0	12.6	F12	1350	4300	20	0.12	680	50SVF68M	400

1** Ripple current (100 kHz/ +105 °C < Tx ≤ +125 °C) /Allowable ripple current (100 kHz/ Tx ≤ +105 °C), **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			

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