

Surface
mount type

SVPA Series



- LowESR (18mΩ max.)
- High ripple (4240mArms)
- RoHS compliance, Halogen free

Specifications

Items	Specifications			
	B6	C6	E7	F8
Size code	B6	C6	E7	F8
Category temperature range	-55 to +105 °C			
Rated voltage range	2.5 to 20 V.DC			
Rated capacitance range	10 to 82 μF	22 to 180 μF	47 to 330 μF	180 to 820 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, 2,000 h, rated voltage applied			
	ΔC/C	Within±20 % of the initial value		
	DF	≤1.5 times of the initial limit		
	LC	Within the initial limit		
Damp heat (Steady State)	60°C, 90 to 95%RH, 1,000h, No-applied voltage			
	ΔC/C	Within±20 % of the initial value		
	DF	≤1.5 times of the initial limit		
	LC	Within the initial limit (after voltage processing)		

Marking and dimensions

Size code	φD ±0.5	L ^{+0.1} / _{-0.4}	W ±0.2	H ±0.2	C ±0.2	R	P ±0.2
B6	5.0	5.9	5.3	5.3	6.0	0.6~0.8	1.4
C6	6.3	5.9	6.6	6.6	7.3	0.6~0.8	2.1
E7	8.0	6.9	8.3	8.3	9.0	0.6~0.8	3.2
F8	10.0	7.9	10.3	10.3	11.0	0.6~0.8	4.6

(unit : mm)

Characteristics list

Series	Rated voltage (V.DC)	Rated capacitance (μF)	Case size (mm)		Size code	Specifications				Standard (Reel size: φ 380)	
			φD	L		Rated ripple current (mA rms) ※1	ESR ※2 (mΩ max.)	tan δ ※3	LC ※4 (μA)	Part number	Min. Packaging Qty (pcs)
SVPA	2.5	82	5.0	5.9	B6	1970	30	0.12	300	2R5SVP A82MAA	1500
		180	6.3	5.9	C6	2690	20	0.12	300	2R5SVP A180MAA	1000
		330	8.0	6.9	E7	3370	20	0.12	500	2R5SVP A330MAA	1000
		820	10.0	7.9	F8	4240	19	0.12	500	2R5SVP A820M	500
	4.0	68	5.0	5.9	B6	1970	30	0.12	300	4SVP A68MAA	1500
		150	6.3	5.9	C6	2570	22	0.12	300	4SVP A150MAA	1000
		270	8.0	6.9	E7	3220	22	0.12	500	4SVP A270MAA	1000
		680	10.0	7.9	F8	4130	20	0.12	544	4SVP A680M	500
	6.3	47	5.0	5.9	B6	1970	30	0.12	300	6SVP A47MAA	1500
		120	6.3	5.9	C6	2570	22	0.12	300	6SVP A120MAA	1000
		220	8.0	6.9	E7	3220	22	0.12	500	6SVP A220MAA	1000
		470	10.0	7.9	F8	4130	20	0.12	592	6SVP A470M	500
	10	68	6.3	5.9	C6	2200	30	0.12	300	10SVP A68MAA	1000
		150	8.0	6.9	E7	2760	30	0.12	500	10SVP A150MAA	1000
		330	10.0	7.9	F8	3770	24	0.12	660	10SVP A330M	500
	16	39	6.3	5.9	C6	2040	35	0.12	300	16SVP A39MAA	1000
			6.3	5.9	C6	2460	24	0.12	300	16SVP A39MAAY	1000
		82	8.0	6.9	E7	2760	30	0.12	262	16SVP A82MAA	1000
		180	10.0	7.9	F8	3430	29	0.12	576	16SVP A180M	500
	20	10	5.0	5.9	B6	1700	40	0.12	80	20SVP A10M	1500
		22	6.3	5.9	C6	2040	35	0.12	88	20SVP A22M	1000
		47	8.0	6.9	E7	2630	33	0.12	188	20SVP A47M	1000

※1: Rated ripple current (100 kHz/ +105 °C), ※2: ESR (100 kHz /+20 °C) ※3: tan δ (120 Hz/+20 °C) ※4: After 2 minutes

◆Please refer to each page in this catalog 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