

SVPE series characteristics list

Size code	Part number	Rated voltage (V)	Rated capacitance (μF)	ESR(mΩ) (max)		Rated ripple current 100kHz (mA _{rms}) at 105℃	DF (% max)	Leakage current (μA) (max) After 2 minutes
				100kHz/20℃	300kHz/20℃※1			
B6	6SVPE150M	6.3	150	12	10	3520	12	500
	6SVPE180M	6.3	180	15	13	3150	12	500
	6SVPE220MW	6.3	220	15	13	3150	12	500
	2R5SVPE270M	2.5	270	10	9	3860	12	500
	2R5SVPE330M	2.5	330	15	13	3150	12	500
	2R5SVPE330MY	2.5	330	10	9	3860	12	500
	2R5SVPE390MX	2.5	390	10	9	3860	12	700
C6	10SVPE220M	10	220	20	18	2700	12	500
	6SVPE220M	6.3	220	10	9	3900	12	500
	2R5SVPE390M	2.5	390	10	9	3900	12	500
C10	16SVPE180M	16	180	11	10	4460	12	576
	2SVPE1200M	2.0	1200	8	8	5230	12	500
F12	16SVPE470M	16	470	10	9	6100	12	1504

※1 The ESR value in 300kHz is a reference one.

Recommended land pattern dimension of PWB

The diagram illustrates the recommended land pattern dimensions for the SVPE series. It shows a rectangular pad with a width of 'a' and a length of 'b'. The distance from the center of the pad to the edge of the mounting area is 'c'. The total width of the mounting area is 'b'. The distance from the center of the pad to the edge of the mounting area is 'c'. The total width of the mounting area is 'b'.

(unit : mm)			
Size code	a	b	c
B6	1.4	7.4	1.6
C6	2.1	9.1	1.6
C10	2.1	9.1	1.6
F12	4.3	13.1	1.9

Frequency coefficient for ripple current

Frequency	120Hz ≤ f < 1kHz	1kHz ≤ f < 10kHz	10kHz ≤ f < 100kHz	100kHz ≤ f ≤ 500kHz
Coefficient	0.05	0.3	0.7	1