

Surface Mount Type

OS-CON

Series : **SVPB**



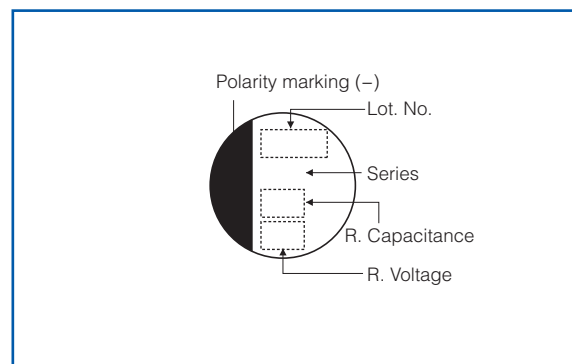
Features

- Low profile (Height 5 mm max.)
- RoHS compliance, Halogen free

Specifications

Size code	C5	C55
Category temperature range	-55 °C to +105 °C	
Rated voltage range	2.5 V.DC to 20 V.DC	20 V.DC
Rated capacitance range	15 µF to 120 µF	22 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, 1000 h, rated voltage applied	
	Capacitance change	Within ±20 % of the initial value (±30 % for C5 size)
	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)

Unit : mm

Size code	φD±0.5	L ±0.1	W±0.2	H±0.2	C±0.2	R	P±0.2
C5	6.3	4.9	6.6	6.6	7.3	0.6 to 0.8	2.1
C55	6.3	5.4	6.6	6.6	7.3	0.6 to 0.8	2.1

* Externals of figure are the reference.

Characteristics list

Series	Rated voltage (V.DC)	Rated capacitance (µF)	Case size (mm)		Size code	Specifications				Standard (Reel size : φ380)	
			φD	L		Ripple* ¹ current (mAr.m.s.)	ESR* ² (mΩ max.)	tan δ* ³	LC* ⁴ (µA)	Part number	Min. Packaging Qty (pcs)
SVPB	2.5	120	6.3	4.9	C5	1670	40	0.12	120	2R5SVPB120M	1300
	4.0	100	6.3	4.9		1670	40	0.12	160	4SVPB100M	1300
	6.3	82	6.3	4.9		1670	40	0.12	207	6SVPB82M	1300
	10	56	6.3	4.9		1670	40	0.12	224	10SVPB56M	1300
	16	33	6.3	4.9		1670	40	0.12	211	16SVPB33M	1300
	20	15	6.3	4.9		2000	45	0.12	120	20SVPB15M	1300
		22	6.3	5.4	C55	2000	35	0.12	88	20SVPB22M	1000

*¹ Ripple current (100 kHz/ +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 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