

Surface Mount Type

OS-CON

Series : **SVPG**



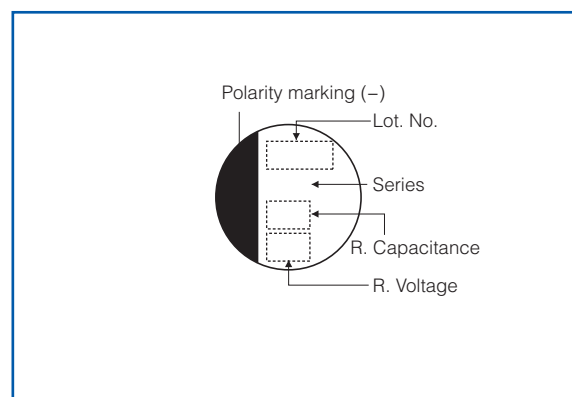
Features

- Low profile (Height 4.5 mm max.)
- Low ESR (8 mΩ to 30 mΩ)
- RoHS compliance, Halogen free

Specifications

Size code	B45	C8	C10
Category temperature range	-55 °C to +105 °C		
Rated voltage range	16 V.DC to 25 V.DC	16 V.DC	
Rated capacitance range	15 μF to 47 μF	270 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, 5000 h, rated voltage applied		
	Capacitance 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)

Side view diagram of the capacitor. The diameter is labeled ϕD . The length is labeled L . The maximum height of the top terminal is labeled 0.2 max. .

Top view diagram of the capacitor. The width is labeled W . The height is labeled H . The center-to-center distance between the terminals is labeled C . The radius of the terminals is labeled R . The pitch of the terminals is labeled P .

Unit : mm

Size code	$\phi D \pm 0.5$	$L \begin{smallmatrix} +0.1 \\ -0.4 \end{smallmatrix}$	$W \pm 0.2$	$H \pm 0.2$	$C \pm 0.2$	R	$P \pm 0.2$
B45	5.0	4.4	5.3	5.3	6.0	0.6 to 0.8	1.4
C8	6.3	7.9	6.6	6.6	7.3	0.6 to 0.8	2.1
C10	6.3	9.9	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 current (mA r.m.s.)	ESR*2 (mΩ max.)	tan δ*3	LC*4 (μA)	Part number	Min. Packaging Q'ty (pcs)
SVPG	16	47	5.0	4.4	B45	3200	25	0.12	150	16SVPG47M	2500
		270 NEW	6.3	7.9	C8	5080	10	0.12	864	16SVPG270MX	900
			6.3	9.9	C10	5800	8	0.12	864	16SVPG270M	500
	20	33	5.0	4.4	B45	3000	27	0.12	132	20SVPG33M	2500
	25	15	5.0	4.4		2800	30	0.12	75	25SVPG15M	2500

*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