

Surface  
mount type

# SVPK Series

- High voltage (50 V max.)
- RoHS compliance, Halogen free



## Specifications

Items	Specifications	
Size code	C6	
Category temperature range	-55 to +105 °C	
Rated voltage range	50 V.DC	
Rated capacitance range	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, 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, 1,000 h, 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	(unit : mm)						
	φD ±0.5	L <sup>+0.1</sup> / <sub>-0.4</sub>	W ±0.2	H ±0.2	C ±0.2	R	P ±0.2
C6	6.3	5.9	6.6	6.6	7.3	0.6~0.8	2.1

## 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)
SVPK	50	22	6.3	5.9	C6	2600	35	0.12	220	50SVPK22M	1000

※1: Rated 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