Surface Mount Type
SVPT series

NEW



OS-CON

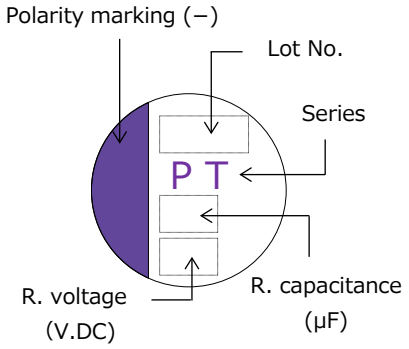
Features

- Low ESR（15 mΩ max.）
- Large capacitance（560 μF max.）
- 105℃ 20000 h
- RoHS compliance, Halogen free

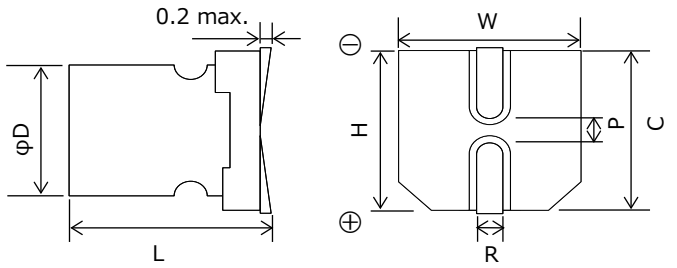
Specifications

Size code	C65	
Category temp. range	−55 ℃ to +105 ℃	
Rated voltage range	2.5 V.DC to 16 V.DC	
Nominal cap. range	100 μF to 560 μF	
Capacitance tolerance	±20 % (120 Hz / +20 ℃)	
DC leakage current	Please see the attached characteristics list	
Dissipation factor (tan δ)	Please see the attached characteristics list	
Endurance	+105 ℃ 20000 h, rated voltage applied	
	Capacitance change	Within ±20 % of the initial value
	Dissipation factor (tanδ)	≦ 150 % of the initial limit
	DC leakage current	Within the initial limit
Damp heat (Steady state)	+60 ℃, 90 % to 95 %, 1000 h, No-applied voltage	
	Capacitance change	Within ±20 % of the initial value
	Dissipation factor (tanδ)	≦ 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 -0.4	W±0.2	H±0.2	C±0.2	R	P±0.2
C65	6.3	6.4	6.6	6.6	7.3	0.6～0.8	2.1

Characteristics list

Rated voltage (V.DC)	Rated capacitance (±20 %) (μF)	Case size (mm) φD	Case size (mm) L	Size code	Specifications Ripple current*1 (mA r.m.s.)	Specifications ESR*2 (mΩ)	Specifications tan δ*3	Specifications LC*4 (μA)	Standard（Reel size : φ380） Part number	Standard（Reel size : φ380） Min. Packaging Q'ty (pcs)
2.5	560	6.3	6.4	C65	3500	16	0.12	300	2R5SVPT560M	1000
6.3	330	6.3	6.4	C65	3390	15	0.12	415	6SVPT330M	1000
16	100	6.3	6.4	C65	2490	24	0.12	300	16SVPT100M	1000

*1: Ripple current（100 kHz / +105 ℃）
The surface temperature of aluminum case top must not exceed 105 °C. A rise in temperature due to self-heating by ripple current should be factored in.
*2: ESR（100 kHz to 300 kHz / +20 ℃） *3: tan δ (120 Hz / +20 ℃) *4: After 2 minutes
◆ Please refer to each page in this catarog for “Reflow conditions” and “Taping specifications”.

Frequency correction factor for ripple current

Frequency(f)	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

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
Should a safety concern arise regarding this product, please be sure to contact us immediately.