

Surface mount type

SVQP Series



- 125°C 1,000h
- RoHS compliance, Halogen free

Specifications

Items	Specifications	
Size code	C6	E7
Category temperature range	-55 to +125 °C	
Rated voltage range	4.0 to 20 V.DC	
Rated capacitance range	22 to 150 μF	47 to 220 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	125 °C, 1,000 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, 1,000h, 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	φD ±0.5	L ^{+0.1} / _{-0.4}	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
E7	8.0	6.9	8.3	8.3	9.0	0.6~0.8	3.2

(unit : mm)

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	Allowable ripple current (mA _{RMS}) ※1	ESR ※2 (mΩ max.)	tan δ ※3	LC ※4 (μA)	Part number	Min. Packaging Qty (pcs)
SVQP	4.0	150	6.3	5.9	C6	572	1810	40	0.12	300	4SVQP150M	1000
			8.0	6.9	E7	810	2560	35	0.12	693	6SVQP220M	1000
	6.3	82	6.3	5.9	C6	538	1700	45	0.12	258	6SVQP82M	1000
			6.3	5.9	C6	572	1810	40	0.12	315	6SVQP100M	1000
	10	56	6.3	5.9	C6	538	1700	45	0.12	280	10SVQP56M	1000
			8.0	6.9	E7	810	2560	35	0.12	600	10SVQP120M	1000
	16	39	6.3	5.9	C6	512	1620	50	0.10	312	16SVQP39M	1000
			8.0	6.9	E7	670	2120	40	0.12	656	16SVQP82M	1000
	20	22	6.3	5.9	C6	459	1450	60	0.10	220	20SVQP22M	1000
			8.3	6.9	E7	598	1890	45	0.12	470	20SVQP47M	1000

※1: Rated ripple current (100 kHz/105 °C < Tx ≤ 125 °C) / Allowable ripple current (100 kHz / Tx ≤ 105 °C)

※2: ESR (100 kHz~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