



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Surface Mount Type



Series : SVQP

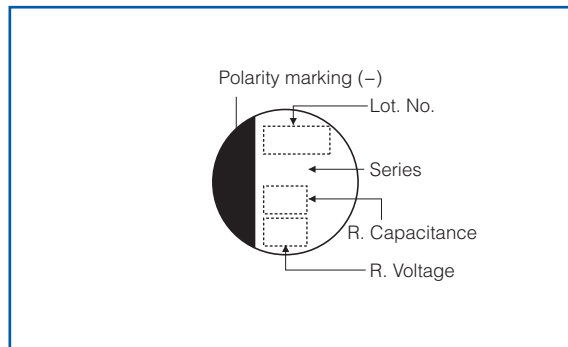
Features

- 125 °C 1000 h
- RoHS compliance, Halogen free

Specifications

Size code	C6	E7
Category temperature range	-55 °C to +125 °C	
Rated voltage range	4 V.DC to 20 V.DC	6.3 V.DC to 20 V.DC
Rated capacitance range	22 μF to 150 μF	47 μF 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, 1000 h, rated voltage applied	
	Capacitance change	Within ±20 % of the initial value
	tan δ	≤ 200 % of 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)

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 to 0.8	2.1
E7	8.0	6.9	8.3	8.3	9.0	0.6 to 0.8	3.2

* 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* ¹ (mAr.m.s.)	Allowable* ¹ ripple current (mAr.m.s.)	ESR* ² (mΩ max.)	tan δ* ³	LC* ⁴ (μA)	Part number	Min. Packaging Q'ty (pcs)	
SVQP	4.0	150	6.3	5.9	C6	572	1810	40	0.12	300	4SVQP150M	1000	
		82	6.3	5.9		538	1700	45	0.12	258	6SVQP82M	1000	
	100	6.3	5.9	572		1810	40	0.12	315	6SVQP100M	1000		
	6.3	220	8.0	6.9	E7	810	2560	35	0.12	693	6SVQP220M	1000	
		56	6.3	5.9	C6	538	1700	45	0.12	280	10SVQP56M	1000	
	10	120	8.0	6.9		E7	810	2560	35	0.12	600	10SVQP120M	1000
	150	8.0	6.9	810			2560	35	0.12	750	10SVQP150M	1000	
	16	39	6.3	5.9	C6	512	1620	50	0.10	312	16SVQP39M	1000	
		82	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	
		47	8.3	6.9	E7	598	1890	45	0.12	470	20SVQP47M	1000	

*¹ Ripple current (100 kHz / +105 °C < Tx ≤ 125 °C), Allowable ripple current (100 kHz / Tx ≤ 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

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.