

POSCAP

Surface mount type



RoHS directive/Halogen-free compliant High voltage (50V) Large capacitance $(1,000 \mu F)$

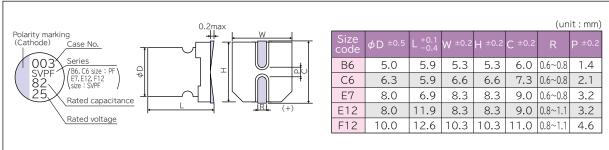
Endurance: 105°C 5,000h

Specifications

Items	Conditio	n	Specifications							
Rated voltage (V)	-		16	20	25	35	50			
Surge voltage (V)	Room temper	ature	18	23	29	40	57			
Category temperature range (°C)	-			-	-55 to +105	5				
Capacitance tolerance (%)	120Hz/20	$^{\circ}$			M: ±20					
Dissipation Factor (DF)	120Hz/20	Plea	se see the attached characteristics list							
Leakage current ^{%1}	Rated voltage applied, after 2 minutes			se see the	attached ch	aracteristics	s list			
Equivalent series resistance (ESR)	Equivalent series resistance (ESR) 100kHz to 300kHz/20°C		Plea	se see the	attached ch	aracteristics	s list			
Characteristics of impedance ratio at high temp.	Based the value at	-55℃ Z/Z20℃	0.75 to 1.25							
and low temp.	100kHz, +20℃	+105℃ Z/Z20℃	0.75 to 1.25							
	105℃, 5,000h, Rated voltage applied	∆C/C	Within ±20% of the initial value							
Endurance		DF	Within 1.5 times of the initial limit							
Endurance		ESR	Within 1.5 times of the initial limit							
		LC	Within the initial limit							
	(0°0 00 1 050/DII	∆C/C	Within ±20% of the initial value							
Damp heat(Steady state)	60℃, 90 to 95%RH, 1,000h,	DF	Within 1.5 times of the initial limit							
	No-applied voltage	ESR	Within 1.5 times of the initial limit							
		LC	Within the initial limit (after voltage processing)				essing)			
		∆C/C	Within ±10% of the initial value							
Resistance to soldering heat*2	VPS (230°C X 75s)	DF		Within 1.3	times of the	initial limit	e nit nit occessing) e			
resistance to soldering neather	VI 3 (230 C X 733)	ESR		Within 1.3	times of the	initial limit				
		LC	Within the initial limit (after voltage processing)							

- ※1 When measured values are questionable, measure after voltage processing mentioned below.
 Voltage processing: Apply voltage for 120 minutes at 105℃.
 ※2 Please refer to page 25 for reflow soldering conditions.

Marking and dimensions



Size list

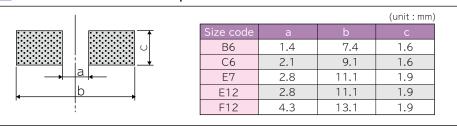
RV	:	Rated	voltage

μF RV	16	20	25	35	50
10					C6
18					E7
22				C6	
27			В6		
39				E7	E12
47			C6		
56		В6	C6		
68					F12
82	В6		E7	E12	
100			E7		
120		C6		F12	
180	C6	E7	E12		
270	E7				
330			F12		
390		E12			
560	E12	F12			
1000	F12				

SVPF series characteristics list

Size code	Part number	Rated voltage (V)	Rated capacitance (µF)	ESR(mΩ) (max) 100kHz to 300kHz/20℃	Rated ripple current 100kHz (mArms) at 105℃	DF (% max)	Leakage current (µA)(max) After 2 minutes
	25SVPF27MX	25	27	40	2450	12	135
В6	20SVPF56MX	20	56	30	2800	12	224
	16SVPF82M	16	82	27	3000	12	262
	50SVPF10M	50	10	40	2500	12	100
	35SVPF22M	35	22	35	2600	12	154
66	25SVPF47M	25	47	30	2800	12	235
C6	25SVPF56M	25	56	30	2800	12	280
	20SVPF120M	20	120	25	3200	12	480
	16SVPF180M	16	180	22	3300	12	576
	50SVPF18M	50	18	35	2700	12	180
	35SVPF39M	35	39	30	2800	12	273
E7	25SVPF82M	25	82	28	3000	12	410
L /	25SVPF100M	25	100	24	3200	12	500
	20SVPF180M	20	180	25	3200	12	720
	16SVPF270M	16	270	22	3300	12	864
	50SVPF39M	50	39	25	3800	12	390
	35SVPF82M	35	82	20	4000	12	574
E12	25SVPF180M	25	180	16	4650	12	900
	20SVPF390M	20	390	14	4950	12	1560
	16SVPF560M	16	560	14	4950	12	1792
-	50SVPF68M	50	68	20	4300	12	680
	35SVPF120M	35	120	18	4400	12	840
F12	25SVPF330M	25	330	14	5000	12	1650
	20SVPF560M	20	560	12	5400	12	2240
	16SVPF1000M	16	1000	12	5400	12	3200

■ Recommended land pattern dimension of PWB



Frequency coefficient for ripple current

Frequency	120Hz≦ f <1kHz	1kHz≦ f <10kHz	10kHz≦ f <100kHz	100kHz≦ f ≦500kHz
Coefficient	0.05	0.3	0.7	1

Guidelines and precautions

Guidelines and precautions

Series system diagram
Image of Case size
Products list
Packing specifications (SMO type)

Recommended soldering condition
Fundamental structure
Characteristics
Reliability

SVPG

SVPF

SVPS

SVPD

Catalog Deletion and EOL series

SEQP

POSCAP Line-up Guidelines and

Selection guide

Technical data

Surface mount type

Catalog Deletion ar