

POSCAP

SVPB Series Surface mount type

RoHS directive/Halogen-free compliant Low profile/5mm height, 5.5mm height

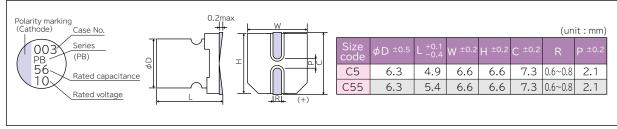
Specifications

Items	Conditio	n	Specifications					
Rated voltage (V)	_		2.5	4.0	6.3	10	16	20
Surge voltage (V)	Room temper	ature	3.3	5.2	8.2	12	18	23
Category temperature range (°C)	-		-55 to +105					
Capacitance tolerance (%)	120Hz/20	$^{\circ}$	M: ±20					
Dissipation Factor (DF)	120Hz/20℃		Please see the attached characteristics list					
Leakage current ^{*1}	Rated voltage applied,	after 2 minutes	Please see the attached characteristics list					
Equivalent series resistance (ESR)	100kHz to 300k	Hz/20℃	Please see the attached characteristics 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					
Endurance		ΔC/C	Within ±20% of the initial value(±30% for C5 size)					size)
	105℃, 1,000h,	DF Within 1.5 times of the initia				ial limit		
	Rated voltage applied	ESR	Within 1.5 times of the initial limit					
		LC	Within the initial limit					
		Δ C/C Within ±20% of t				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)					ing)
Resistance to soldering heat ^{※2}		∆C/C	Δ C/C Within ±10% of the initial value (±20% for C5 siz					
	VPS (230℃ X 75s)	DF		Within	1.3 times	of the init	ial limit	
resistance to soldering heat.	VI 3 (230 C X 733)	ESR	Within 1.3 times of the initial limit					
		LC	Within the initial limit (after voltage processing)					

 $\!\!\!$ %1 In case of some problems for measured values, measure after applying rated voltage for 120 minutes at 125°C.

X2 Please refer to page 25 for reflow soldering conditions.

Marking and dimensions



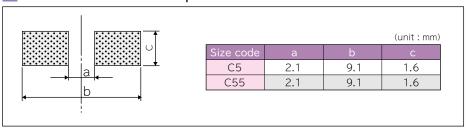
Size list

Size list					RV:	: Rated voltage
RV μF	2.5	4.0	6.3	10	16	20
15						C5
22						C55
33					C5	
56				C5		
82			C5			
100		C5				
120	C5					

SVPB 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°C	DF (% max)	Leakage current (µA)(max) After 2 minutes
	20SVPB15M	20	15	45	2000	12	120
	16SVPB33M	16	33	40	1670	12	211
C5	10SVPB56M	10	56	40	1670	12	224
CS	6SVPB82M	6.3	82	40	1670	12	207
	4SVPB100M	4.0	100	40	1670	12	160
	2R5SVPB120M	2.5	120	40	1670	12	120
C55	20SVPB22M	20	22	35	2000	12	88

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

C	S-CON
	OS-CON Line-up
	Guidelines and precautions
മ	Series system diagram
guid	Image of case size
ion	Products list
lect	Packing specifications (SMD type)
Se	Packing specifications (Radial lead type)
ata	Recommended soldering condition
al di	Fundamental structure
hnic	Characteristics
Tec	Reliability
	SXV
	SVPG
mount type	SVPF
	SVPE
	SVPS
	SVPD
ce	SVPC
ırfa	SVPB
รั	SVPA
	SVQP
	SVP
Radial lead type	SXE
	SEPF
	SEPC
	SEQP
	SEP

POSCAP POSCAP Line-up Guidelines and precautions

Selection guide

Technical data

Surface mount type

Catalog Deletion and