Surface mount type



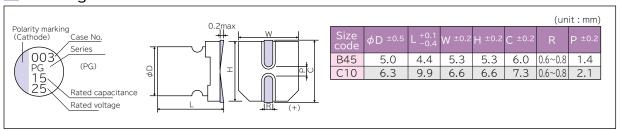
HS directive/Halogen-free compliant Low ESR($8m\Omega$) High rated ripple current (5,800 mArms)

Specifications

Items	Conditio	n		Specifications		
Rated voltage (V)	-			16	20	25
Surge voltage (V)	Room temper	ature		18	23	29
Category temperature range (°C)	-		-55 to +105			
Capacitance tolerance (%)	120Hz/20℃		M:±20			
Dissipation Factor (DF)	120Hz/20℃		Please see the attached characteristics list			
Leakage current ^{*1}	Rated voltage applied, after 2 minutes		ninutes	Please see the attached characteristics list		
Equivalent series resistance (ESR)	100kHz to 300kHz/20℃			Please see the attached characteristics list		
Characteristics of impedance	Based the value at	-55℃	Z/Z20°C	0.75 to 1.25		
ratio at high temp. and low temp.	100kHz, +20℃	+105℃	Z/Z20°C	0.75 to 1.25		
	105℃, 5,000h, Rated voltage applied	ΔC/C		Within ±20% of the initial value		
Endurance		DF		Within 1.5 times of the initial limit		
Lituarice		ESR		Within 1.5 times of the initial limit		
		LC		Within the initial limit		
		ΔC/C		Within ±20% of the initial value		
	60℃, 90 to 95%RH, 1,000h,	DF		Within 1.5 times of the initial limit		
Damp heat(Steady state)	No applied voltage	ESR		Within 1.5 times of the initial limit		
		LC		Within the initial limit (after voltage processing)		
		ΔC/C		Within ±10% of the initial value		
Resistance to soldering heat**2	VPS (230℃ X 75s)	DF		Within 1.3 times of the initial limit		
resistance to soldering fleat.		ESR		Within 1.3 times of the initial limit		
			.C	Within the initial limit (after voltage processing)		

^{*1} In case of some problems for measured values, measure after applying rated voltage.*2 Please refer to page 25 for reflow soldering conditions.

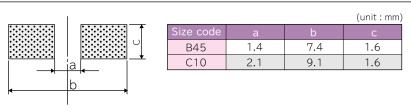
Marking and dimensions



Size list RV: Rated voltage

RV μF	16	20	25
15			B45
33		B45	
47	B45		
270	C10		

Recommended land pattern dimension of PWB



SVPG 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
	25SVPG15M	25	15	30	2800	12	75
B45	20SVPG33M	20	33	27	3000	12	132
	16SVPG47M	16	47	25	3200	12	150
C10	16SVPG270M	16	270	8	5800	12	864

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
Selection guide	Series system diagram Image of case size Products list Packing specifications (SMD type) Packing specifications (Radial lead type)
Technical data	Recommended soldering condition Fundamental structure Characteristics
	SXV
	SVPG
ec ec	SVPG SVPF
type	
unt type	SVPF
mount type	SVPF SVPE
ace mount type	SVPF SVPE SVPS
urface mount type	SVPF SVPE SVPS SVPD
Surface mount type	SVPF SVPE SVPS SVPD SVPC
Surface mount type	SVPF SVPE SVPS SVPD SVPC SVPB
Surface mount type	SVPF SVPE SVPS SVPD SVPC SVPB
Surface mount type	SVPF SVPS SVPD SVPC SVPB SVPA SVQP
d type Surface mount type	SVPF SVPE SVPS SVPD SVPC SVPB SVPA SVQP
lead type Surface mount type	SVPF SVPE SVPS SVPD SVPC SVPB SVPA SVQP SVP

Selection guide

Surface mount type