

SRG Series



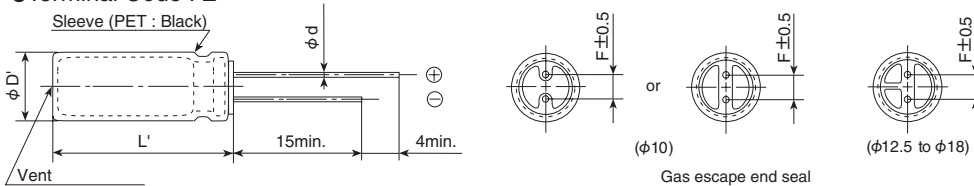
- Low profile : $\phi 10 \times 12.5\text{mm}$ to $\phi 18 \times 25\text{mm}$
- Endurance : 2,000 hours at 85°C
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS2 Compliant

◆ SPECIFICATIONS

Items	Characteristics						
Category	-40 to +85°C						
Temperature Range	-40 to +85°C						
Rated Voltage Range	6.3 to 50V _{dc}						
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)						
Leakage Current	I=0.01CV or 3μA, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)						
Dissipation Factor (tan δ)	Rated voltage (V _{dc})	6.3V	10V	16V	25V	35V	50V
	tan δ (Max.)	0.28	0.24	0.20	0.16	0.14	0.12
	When nominal capacitance exceeds 1,000μF, add 0.03 to the value above for each 1,000μF increase. (at 20°C, 120Hz)						
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	6.3V	10V	16V	25V	35V	50V
	Z(-25°C)/Z(+20°C)	5	4	3	2	2	2
	Z(-40°C)/Z(+20°C)	12	10	8	5	4	3
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2,000 hours at 85°C.						
	Capacitance change	≤ ±20% of the initial value					
	D.F. (tan δ)	≤ 200% of the initial specified value					
	Leakage current	≤ The initial specified value					
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 85°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4.						
	Capacitance change	≤ ±20% of the initial value					
	D.F. (tan δ)	≤ 200% of the initial specified value					
	Leakage current	≤ The initial specified value					

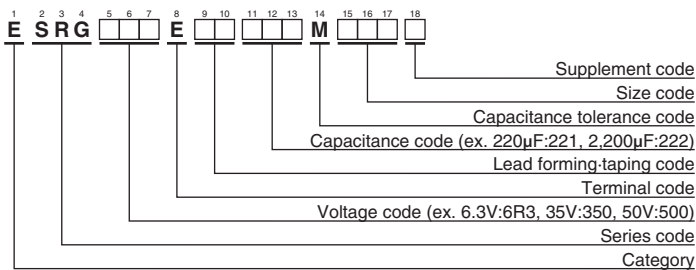
◆ DIMENSIONS [mm]

● Terminal Code : E



φD	10 & 12.5	16 & 18
φd	0.6	0.8
F	5.0	7.5
φD'	φD+0.5max.	
L'	L+1.5max.	

◆ PART NUMBERING SYSTEM



Please refer to "Product code guide (radial lead type)"

SRGSeries

◆STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Case code φD×L(mm)	tan δ	Rated ripple current (mA _{rms} /85°C, 120Hz)	Part No.	WV (V _{dc})	Cap (μF)	Case code φD×L(mm)	tan δ	Rated ripple current (mA _{rms} /85°C, 120Hz)	Part No.
6.3	4,700	16 × 15	0.37	1,410	ESRG6R3E□□472ML15S	25	470	10 × 12.5	0.16	525	ESRG250E□□471MJC5S
	6,800	18 × 15	0.43	1,660	ESRG6R3E□□682MM15S		1,000	12.5 × 15	0.16	830	ESRG250E□□102MK15S
	10,000	18 × 20	0.55	2,020	ESRG6R3E□□103MM20S		2,200	18 × 15	0.19	1,360	ESRG250E□□222MM15S
10	1,000	10 × 12.5	0.24	625	ESRG100E□□102MJC5S	35	3,300	18 × 20	0.22	1,720	ESRG250E□□332MM20S
	2,200	12.5 × 15	0.27	970	ESRG100E□□222MK15S		4,700	18 × 25	0.25	2,070	ESRG250E□□472MM25S
	3,300	16 × 15	0.30	1,310	ESRG100E□□332ML15S		330	10 × 12.5	0.14	475	ESRG350E□□331MJC5S
	4,700	18 × 15	0.33	1,560	ESRG100E□□472MM15S	470	12.5 × 13	0.14	585	ESRG350E□□471MK13S	
	6,800	18 × 20	0.39	1,870	ESRG100E□□682MM20S	1,000	16 × 15	0.14	1,010	ESRG350E□□102ML15S	
	10,000	18 × 25	0.51	2,370	ESRG100E□□103MM25S	2,200	18 × 20	0.17	1,560	ESRG350E□□222MM20S	
16	1,000	12.5 × 13	0.20	715	ESRG160E□□102MK13S	50	220	10 × 12.5	0.12	415	ESRG500E□□221MJC5S
	2,200	16 × 15	0.23	1,160	ESRG160E□□222ML15S		330	12.5 × 13	0.12	525	ESRG500E□□331MK13S
	3,300	18 × 15	0.26	1,460	ESRG160E□□332MM15S		470	16 × 15	0.12	745	ESRG500E□□471ML15S
	4,700	18 × 20	0.29	1,770	ESRG160E□□472MM20S		1,000	18 × 20	0.12	1,160	ESRG500E□□102MM20S
	6,800	18 × 25	0.35	2,170	ESRG160E□□682MM25S						

□□ : Enter the appropriate lead forming or taping code.

◆RATED RIPPLE CURRENT MULTIPLIERS

● Frequency Multipliers

Capacitance(μF)	Frequency(Hz)	50	120	300	1k	10k	100k
220 to 1,000		0.80	1.00	1.15	1.30	1.40	1.50
2,200 to		0.85	1.00	1.03	1.05	1.08	1.08

The deterioration of aluminum electrolytic capacitors accelerates their life due to the internal heating produced by ripple current. For details, refer to Section "5-3 Ripple Current Effect on Lifetime" in the catalog, Technical Note.