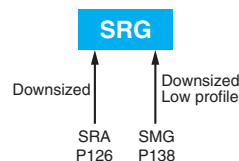


SRG Series

- Low profile : $\phi 4 \times 7\text{mm}$ to $\phi 18 \times 25\text{mm}$
- Endurance : 1,000 to 2,000 hours at 85°C
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS Compliant

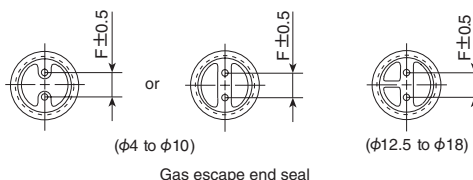
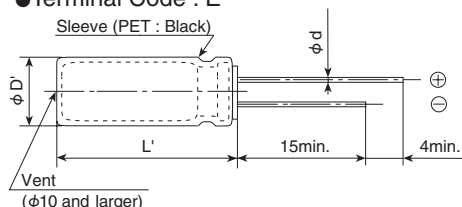


SPECIFICATIONS

Items	Characteristics								
Category	-40 to +85℃								
Temperature Range									
Rated Voltage Range	4 to 50V _{dc}								
Capacitance Tolerance	± 20% (M) (at 20℃, 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℃ after 2 minutes)								
Dissipation Factor (tan δ)	Rated voltage (V _{dc})	4V	6.3V	10V	16V	25V	35V	50V	
	tan δ (Max.)	0.38	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℃, 120Hz)								
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	4V	6.3V	10V	16V	25V	35V	50V	
	Z(-25℃)/Z(+20℃)	6	5	4	3	2	2	2	
	Z(-40℃)/Z(+20℃)	12	12	10	8	5	4	3	(at 120Hz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied for 2,000 hours (1,000 hours for φ 8 and smaller) at 85℃.								
	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℃ after exposing them for 1,000 hours at 85℃ 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							

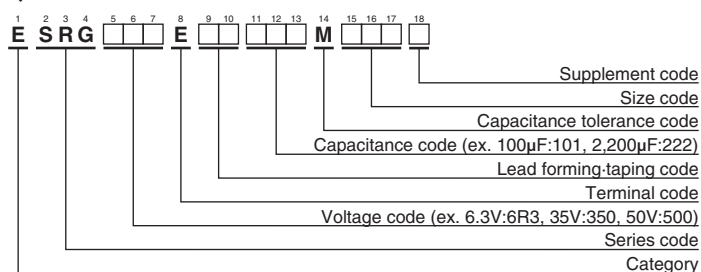
DIMENSIONS [mm]

Terminal Code : E



φD	4	5	6.3	8	10 & 12.5	16 & 18
φd	7L	0.45	0.45	0.45	—	—
≥9L	—	0.5	0.5	0.6	0.6	0.8
F	1.5	2.0	2.5	3.5	5.0	7.5
φD'	φD+0.5max.					
L'	L+1.5max. (7L : L+1.0max.)					

PART NUMBERING SYSTEM



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

◆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.
4	470	8 × 7	0.38	154	ESRG4R0E□□471MH07D	25	470	10 × 12.5	0.16	525	ESRG250E□□471MJC5S
6.3	47	4 × 7	0.28	50	ESRG6R3E□□470MD07D		1,000	12.5 × 15	0.16	830	ESRG250E□□102MK15S
	100	5 × 7	0.28	87	ESRG6R3E□□101ME07D		2,200	18 × 15	0.19	1,360	ESRG250E□□222MM15S
	220	6.3 × 7	0.28	133	ESRG6R3E□□221MF07D		3,300	18 × 20	0.22	1,720	ESRG250E□□332MM20S
	330	6.3 × 9	0.28	247	ESRG6R3E□□331MF09D		4,700	18 × 25	0.25	2,070	ESRG250E□□472MM25S
	330	8 × 7	0.28	191	ESRG6R3E□□331MH07D	35	10	4 × 7	0.14	32	ESRG350E□□100MD07D
	1,000	10 × 9	0.28	505	ESRG6R3E□□330MJ09S		22	5 × 7	0.14	57	ESRG350E□□101ME09D
	4,700	16 × 15	0.37	1,410	ESRG6R3E□□472ML15S		33	5 × 9	0.14	94	ESRG350E□□330ME09D
	6,800	18 × 15	0.43	1,660	ESRG6R3E□□682MM15S		33	6.3 × 7	0.14	73	ESRG350E□□330MF07D
	10,000	18 × 20	0.55	2,020	ESRG6R3E□□103MM20S		47	8 × 7	0.14	101	ESRG350E□□470MH07D
10	33	4 × 7	0.24	46	ESRG100E□□330MD07D		100	8 × 9	0.14	220	ESRG350E□□101MH09D
	100	5 × 9	0.24	132	ESRG100E□□101ME09D		220	10 × 9	0.14	335	ESRG350E□□221MJ09S
	220	6.3 × 9	0.24	218	ESRG100E□□221MF09D		330	10 × 12.5	0.14	475	ESRG350E□□331MJC5S
	220	8 × 7	0.24	171	ESRG100E□□221MH07D		470	12.5 × 13	0.14	585	ESRG350E□□471MK13S
	470	8 × 9	0.24	385	ESRG100E□□471MH09D		1,000	16 × 15	0.14	1,010	ESRG350E□□102ML15S
	1,000	10 × 12.5	0.24	625	ESRG100E□□102MJC5S		2,200	18 × 20	0.17	1,560	ESRG350E□□222MM20S
	2,200	12.5 × 15	0.27	970	ESRG100E□□222MK15S	50	1.0	4 × 7	0.12	10	ESRG500E□□1R0MD07D
	3,300	16 × 15	0.30	1,310	ESRG100E□□332ML15S		1.0	5 × 9	0.12	13	ESRG500E□□1R0ME09D
	4,700	18 × 15	0.33	1,560	ESRG100E□□472MM15S		2.2	4 × 7	0.12	15	ESRG500E□□2R2MD07D
	6,800	18 × 20	0.39	1,870	ESRG100E□□682MM20S		2.2	5 × 9	0.12	26	ESRG500E□□2R2ME09D
	10,000	18 × 25	0.51	2,370	ESRG100E□□103MM25S		3.3	4 × 7	0.12	19	ESRG500E□□3R3MD07D
16	22	4 × 7	0.20	42	ESRG160E□□220MD07D		3.3	5 × 9	0.12	32	ESRG500E□□3R3ME09D
	47	5 × 7	0.20	73	ESRG160E□□470ME07D		4.7	4 × 7	0.12	24	ESRG500E□□4R7MD07D
	100	6.3 × 7	0.20	110	ESRG160E□□101MF07D		4.7	5 × 9	0.12	38	ESRG500E□□4R7ME09D
	220	8 × 9	0.20	290	ESRG160E□□221MH09D		10	5 × 7	0.12	42	ESRG500E□□100ME07D
	330	8 × 9	0.20	355	ESRG160E□□331MH09D		10	5 × 9	0.12	64	ESRG500E□□100ME09D
	470	10 × 9	0.20	410	ESRG160E□□471MJ09S		22	5 × 9	0.12	86	ESRG500E□□220ME09D
	1,000	12.5 × 13	0.20	715	ESRG160E□□102MK13S		22	6.3 × 7	0.12	64	ESRG500E□□220MF07D
	2,200	16 × 15	0.23	1,160	ESRG160E□□222ML15S		33	6.3 × 9	0.12	113	ESRG500E□□330MF09D
	3,300	18 × 15	0.26	1,460	ESRG160E□□332MM15S		33	8 × 7	0.12	93	ESRG500E□□330MH07D
	4,700	18 × 20	0.29	1,770	ESRG160E□□472MM20S		47	6.3 × 9	0.12	135	ESRG500E□□470MF09D
25	6,800	18 × 25	0.35	2,170	ESRG160E□□682MM25S		100	10 × 9	0.12	240	ESRG500E□□101MJ09S
	33	5 × 7	0.16	66	ESRG250E□□330ME07D		220	10 × 12.5	0.12	415	ESRG500E□□221MJC5S
	47	5 × 9	0.16	105	ESRG250E□□470ME09D		330	12.5 × 13	0.12	525	ESRG500E□□331MK13S
	47	6.3 × 7	0.16	80	ESRG250E□□470MF07D		470	16 × 15	0.12	745	ESRG500E□□471ML15S
	100	6.3 × 9	0.16	172	ESRG250E□□101MF09D		1,000	18 × 20	0.12	1,160	ESRG500E□□102MM20S
	330	10 × 9	0.16	380	ESRG250E□□331MJ09S						

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

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Capacitance(μF)	Frequency(Hz)	50	120	300	1k	10k	100k
to 4.7		0.65	1.00	1.35	1.75	2.30	2.50
10 to 47		0.75	1.00	1.25	1.50	1.75	1.80
100 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

Mouser Electronics

Authorized Distributor

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United Chemi-Con (UCC):

<u>ESRG100ELL221MH07D</u>	<u>ESRG160ETD471MJ09S</u>	<u>ESRG500ELL3R3MD07D</u>	<u>ESRG350ELL100MD07D</u>
<u>ESRG500ELL102MM20S</u>	<u>ESRG500ETD101MJ09S</u>	<u>ESRG6R3ELL221MF07D</u>	<u>ESRG160ELL222ML15S</u>
<u>ESRG160ETC101MF07D</u>	<u>ESRG250ETD331MJ09S</u>	<u>ESRG500ETC1R0MD07D</u>	<u>ESRG350ELL102ML15S</u>
<u>ESRG6R3ETD221MF07D</u>	<u>ESRG160ETD470ME07D</u>	<u>ESRG250ELL331MJ09S</u>	<u>ESRG250ELL102MK15S</u>
<u>ESRG350ETD221MJ09S</u>	<u>ESRG160ETS332MM15S</u>	<u>ESRG160ETC100MD07D</u>	<u>ESRG100ETD471MH09D</u>
<u>ESRG160ELL332MM15S</u>	<u>ESRG250ELL101MH09D</u>	<u>ESRG250ETC470MF07D</u>	<u>ESRG350ELL470MH07D</u>
<u>ESRG350ETD100MD07D</u>			