

SRM Series

- Downsized from current standard SRE series
- 5mm height
- Endurance : 1,000 hours at 85°C
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS Compliant

SRM
↓
SRE P135

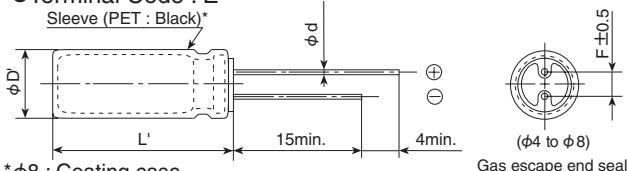


◆SPECIFICATIONS

Items	Characteristics						
Category Temperature Range	-40 to +85°C						
Rated Voltage Range	4 to 50V _{dc}						
Capacitance Tolerance	$\pm 20\%$ (M)						
Leakage Current	$I = 0.01CV$ or $3\mu A$, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)						
Dissipation Factor (tan δ)	Rated voltage (V _{dc})	4V	6.3V	10V	16V	25V	35V
	tan δ (Max.)	0.40	0.38	0.30	0.23	0.17	0.15
							0.13
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	4V	6.3V	10V	16V	25V	35V
	Z(-25°C)/Z(+20°C)	7	4	3	2	2	2
	Z(-40°C)/Z(+20°C)	15	8	8	6	4	3
Endurance	(at 20°C, 120Hz)						
	(at 20°C after 2 minutes)						
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 1,000 hours at 85°C.						
	Capacitance change	$\leq \pm 20\%$ of the initial value					
	D.F. (tan δ)	$\leq 200\%$ of the initial specified value					
	Leakage current	\leq The initial specified value					

◆DIMENSIONS [mm]

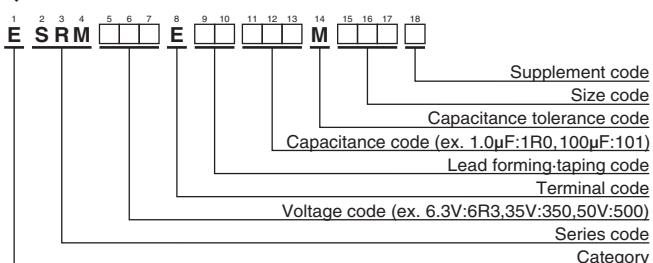
- Terminal Code : E



*φ8 : Coating case

φD	4	5	6.3	8
φd	0.45	0.45	0.45	0.45
F	1.5	2.0	2.5	2.5
φD'	$\phi D + 0.5\text{max.}$			
L'	$L + 1.0\text{max.}$			

◆PART NUMBERING SYSTEM



◆RATED RIPPLE CURRENT MULTIPLIERS

● Frequency Multipliers

Capacitance(μF)	Frequency(Hz)	120	300	1k	10k	100k
1		1.00	1.25	1.50	1.75	1.80
2.2 to 10		1.00	1.15	1.30	1.40	1.50
22 to 330		1.00	1.03	1.05	1.08	1.08

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise.

When long life performance is required in actual use, the rms ripple current has to be reduced.

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

◆STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (mA rms/85°C, 120Hz)	Part No.
4	100	5 × 5	0.40	55	ESRM4R0E□□101ME05D
	220	6.3 × 5	0.40	88	ESRM4R0E□□221MF05D
6.3	22	4 × 5	0.38	22	ESRM6R3E□□220MD05D
	47	4 × 5	0.38	40	ESRM6R3E□□470MD05D
10	33	8 × 5	0.38	141	ESRM6R3E□□331MH05G
	100	6.3 × 5	0.30	36	ESRM100E□□330MD05D
16	100	6.3 × 5	0.30	78	ESRM100E□□101MF05D
	220	8 × 5	0.30	148	ESRM100E□□221MH05G
25	10	4 × 5	0.23	18	ESRM160E□□100MD05D
	22	4 × 5	0.23	33	ESRM160E□□220MD05D
25	33	5 × 5	0.23	47	ESRM160E□□330ME05D
	47	5 × 5	0.23	55	ESRM160E□□470ME05D
25	4.7	4 × 5	0.17	13	ESRM250E□□4R7MD05D
	10	4 × 5	0.17	25	ESRM250E□□100MD05D

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

Product specifications in this catalog are subject to change without notice. Request our product specifications before purchase and/or use. Please use our products based on the information contained in this catalog and product specifications.