

SRM Series



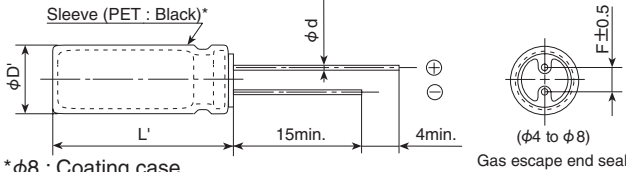
- 5mm height
- Endurance : 1,000 hours at 85°C
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS2 Compliant

◆ SPECIFICATIONS

Items	Characteristics	
Category	-40 to +85°C	
Temperature Range		
Rated Voltage Range	4 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})	4V 6.3V 10V 16V 25V 35V 50V
	tan δ (Max.)	0.40 0.38 0.30 0.23 0.17 0.15 0.13 (at 20°C, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	4V 6.3V 10V 16V 25V 35V 50V
	Z(-25°C)/Z(+20°C)	7 4 3 2 2 2 2 (at 120Hz)
	Z(-40°C)/Z(+20°C)	15 8 8 6 4 3 3
Endurance	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	≤ ±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	4	5	6.3	8
φd	0.45	0.45	0.45	0.45
F	1.5	2.0	2.5	2.5
φD'	φD+0.5max.			
L'	L+1.0max.			

◆ RATED RIPPLE CURRENT MULTIPLIERS

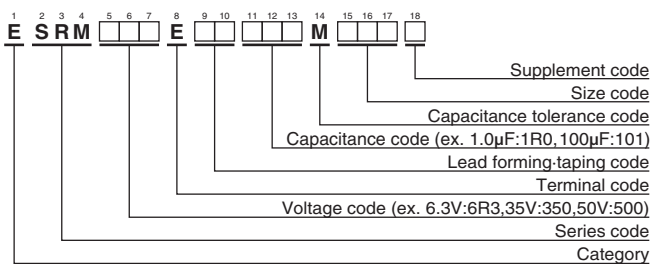
- Frequency Multipliers

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)"

◆ PART NUMBERING SYSTEM



◆ STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (mArms/85°C, 120Hz)	Part No.	WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (mArms/85°C, 120Hz)	Part No.
4	100	5 × 5	0.40	55	ESRM4R0E□□101ME05D	25	22	5 × 5	0.17	41	ESRM250E□□220ME05D
	220	6.3 × 5	0.40	88	ESRM4R0E□□221MF05D		47	6.3 × 5	0.17	63	ESRM250E□□470MF05D
6.3	22	4 × 5	0.38	22	ESRM6R3E□□220MD05D	35	100	8 × 5	0.17	116	ESRM250E□□101MH05G
	47	4 × 5	0.38	40	ESRM6R3E□□470MD05D		3.3	4 × 5	0.15	12	ESRM350E□□3R3MD05D
	330	8 × 5	0.38	141	ESRM6R3E□□331MH05G		33	6.3 × 5	0.15	56	ESRM350E□□330MF05D
10	33	4 × 5	0.30	36	ESRM100E□□330MD05D	50	47	8 × 5	0.15	85	ESRM350E□□470MH05G
	100	6.3 × 5	0.30	78	ESRM100E□□101MF05D		1.0	4 × 5	0.13	7.2	ESRM500E□□1R0MD05D
	220	8 × 5	0.30	148	ESRM100E□□221MH05G		2.2	4 × 5	0.13	10	ESRM500E□□2R2MD05D
16	10	4 × 5	0.23	18	ESRM160E□□100MD05D	50	3.3	4 × 5	0.13	14	ESRM500E□□3R3MF05D
	22	4 × 5	0.23	33	ESRM160E□□220MD05D		4.7	4 × 5	0.13	19	ESRM500E□□4R7MD05D
	33	5 × 5	0.23	47	ESRM160E□□330ME05D		10	5 × 5	0.13	31	ESRM500E□□100ME05D
	47	5 × 5	0.23	55	ESRM160E□□470ME05D		22	6.3 × 5	0.13	49	ESRM500E□□220MF05D
25	4.7	4 × 5	0.17	13	ESRM250E□□4R7MD05D	50	33	8 × 5	0.13	76	ESRM500E□□330MH05G
	10	4 × 5	0.17	25	ESRM250E□□100MD05D						

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