

SRM Series



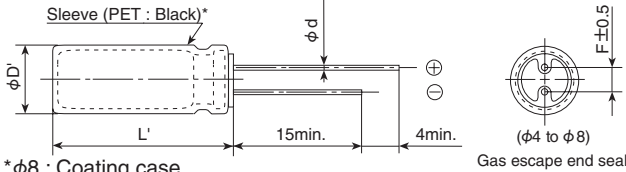
- 5mm height
- Endurance : 1,000 hours at 85°C
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS2 Compliant

◆ SPECIFICATIONS

Items	Characteristics								
Category	-40 to +85°C								
Temperature Range	-40 to +85°C								
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	(at 20°C, 120Hz)
	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	50V	(at 120Hz)
	Z(-25°C)/Z(+20°C)	7	4	3	2	2	2	2	
	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

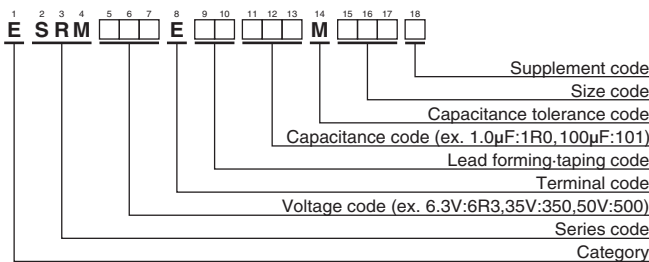


φD	4	5	6.3	8
φd	0.45	0.45	0.45	0.45
F	1.5	2.0	2.5	2.5
φD'	φD+0.5max.			
L'	L+1.0max.			

*φ8 : Coating case

Gas escape end seal

◆ 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 (mArms/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
	330	8×5	0.38	141	ESRM6R3E□□331MH05G
10	33	4×5	0.30	36	ESRM100E□□330MD05D
	100	6.3×5	0.30	78	ESRM100E□□101MF05D
	220	8×5	0.30	148	ESRM100E□□221MH05G
16	10	4×5	0.23	18	ESRM160E□□100MD05D
	22	4×5	0.23	33	ESRM160E□□220MD05D
	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

WV (V _{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (mArms/85°C, 120Hz)	Part No.
25	22	5×5	0.17	41	ESRM250E□□220ME05D
	47	6.3×5	0.17	63	ESRM250E□□470MF05D
	100	8×5	0.17	116	ESRM250E□□101MH05G
35	3.3	4×5	0.15	12	ESRM350E□□3R3MD05D
	33	6.3×5	0.15	56	ESRM350E□□330MF05D
	47	8×5	0.15	85	ESRM350E□□470MH05G
50	1.0	4×5	0.13	7.2	ESRM500E□□1R0MD05D
	2.2	4×5	0.13	10	ESRM500E□□2R2MD05D
	3.3	4×5	0.13	14	ESRM500E□□3R3MD05D
	4.7	4×5	0.13	19	ESRM500E□□4R7MD05D
	10	5×5	0.13	31	ESRM500E□□100ME05D
	22	6.3×5	0.13	49	ESRM500E□□220MF05D
	33	8×5	0.13	76	ESRM500E□□330MH05G

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