

SRM Series

- Downsized from current standard SRE series
- 5mm height, 1,000-hours-life at 85°C
- Solvent-proof type (see PRECAUTIONS AND GUIDELINES)
- RoHS Compliant (φ4 to φ8)

SRM

↑
downsized
SRE

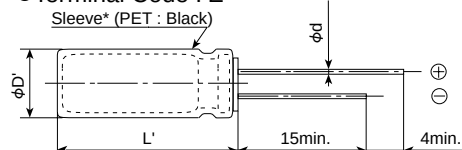


◆ SPECIFICATIONS

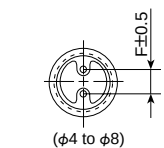
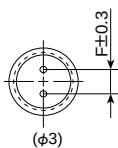
Items	Characteristics								
Category	–40 to +85℃								
Temperature Range									
Rated Voltage Range	4 to 50V _{dc}								
Capacitance Tolerance	±20% (M) (at 20℃, 120Hz)								
Leakage Current	I=0.01CV or 3μA, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20℃ after 2 minutes)								
Dissipation Factor (tanδ)	Rated voltage (V _{dc})	4V	6.3V	10V	16V	25V	35V	50V	(at 20℃, 120Hz)
	tanδ (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℃)/Z(+20℃)	7	4	3	2	2	2	2	
	Z(–40℃)/Z(+20℃)	15	8	8	6	4	3	3	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied for 1,000 hours at 85℃.								
	Capacitance change	≤±20% of the initial value							
	D.F. (tanδ)	≤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.								
	Capacitance change	≤±20% of the initial value							
	D.F. (tanδ)	≤200% of the initial specified value							
	Leakage current	≤The initial specified value							

◆ DIMENSIONS [mm]

- Terminal Code : E



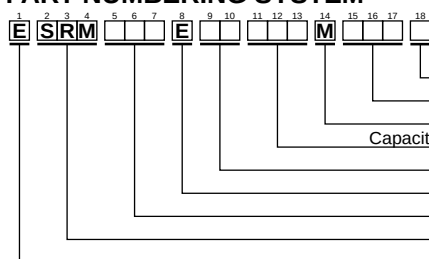
*φ3 : PVC, φ8 : Coating case



Gas escaped end seal

φD	3	4	5	6.3	8
φd	0.4	0.45	0.45	0.45	0.45
F	1.0	1.5	2.0	2.5	2.5
φD'	φD+0.5max.				
L'	L+1.0max.				

◆ PART NUMBERING SYSTEM



Supplement code

Size code

Capacitance tolerance code

Capacitance code (ex. 0.1μF:R10,1μF:1R0,100μF:101)

Lead forming/taping code

Terminal code

Voltage code (ex. 6.3V:6R3,35V:350,50V:500)

Series code

Category

Please refer to "A guide to global code (radial lead type)"

◆ STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Case size φDXL(mm)	tanδ	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	3×5	0.38	22	ESRM6R3E□□220MB05N
	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
	10	3×5	0.23	18	ESRM160E□□100MB05N
16	22	4×5	0.23	33	ESRM160E□□220MD05D
	33	5×5	0.23	47	ESRM160E□□330ME05D
	47	5×5	0.23	55	ESRM160E□□470ME05D
	4.7	3×5	0.17	13	ESRM250E□□4R7MB05N
25	10	4×5	0.17	25	ESRM250E□□100MD05D
	22	5×5	0.17	41	ESRM250E□□220ME05D
	47	6.3×5	0.17	63	ESRM250E□□470MF05D
25	100	8×5	0.17	116	ESRM250E□□101MH05G
	3.3	3×5	0.15	12	ESRM350E□□3R3MB05N
35	33	6.3×5	0.15	56	ESRM350E□□330MF05D
	47	8×5	0.15	85	ESRM350E□□470MH05G
50	0.10	3×5	0.13	1.3	ESRM500E□□R10MB05N
	0.22	3×5	0.13	2.9	ESRM500E□□R22MB05N
	0.33	3×5	0.13	4.2	ESRM500E□□R33MB05N
	0.47	3×5	0.13	5.0	ESRM500E□□R47MB05N
	1.0	3×5	0.13	7.2	ESRM500E□□R10MB05N
	2.2	3×5	0.13	10	ESRM500E□□R22MB05N
	3.3	4×5	0.13	14	ESRM500E□□R33MD05D
	4.7	4×5	0.13	19	ESRM500E□□R47MD05D
	10	5×5	0.13	31	ESRM500E□□R100ME05D
	22	6.3×5	0.13	49	ESRM500E□□R220MF05D
	33	8×5	0.13	76	ESRM500E□□R330MH05G

□□ : Lead forming code and taping code

Note : The case size of φ3×5 will be unified to φ4×5.