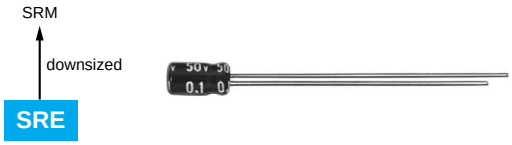
SRE Series

- ●5mm height, 1000-hours-life at 85℃
- ●Non solvent-proof type
- ●**RoHS Compliant** (ϕ4 to ϕ6.3)

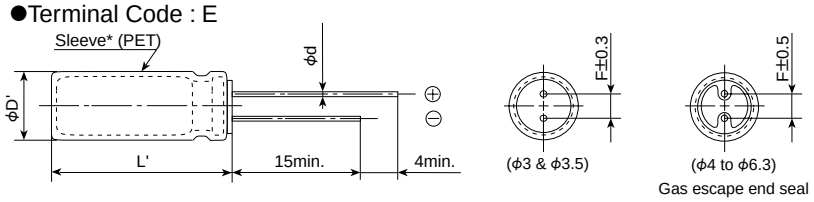


◆SPECIFICATIONS

Items	Characteristics								
Category Temperature Range	−40 to +85℃								
Rated Voltage Range	4 to 50Vdc								
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 (Vdc)	4V	6.3V	10V	16V	25V	35V	50V	
	tanδ (Max.)	0.35	0.24	0.20	0.16	0.14	0.12	0.10	(at 20℃, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (Vdc)	4V	6.3V	10V	16V	25V	35V	50V	
	Z(−25℃)/Z(+20℃)	7	4	3	2	2	2	2	
	Z(−40℃)/Z(+20℃)	15	10	8	6	4	3	3	(at 120Hz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied for 1000 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 1000 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]

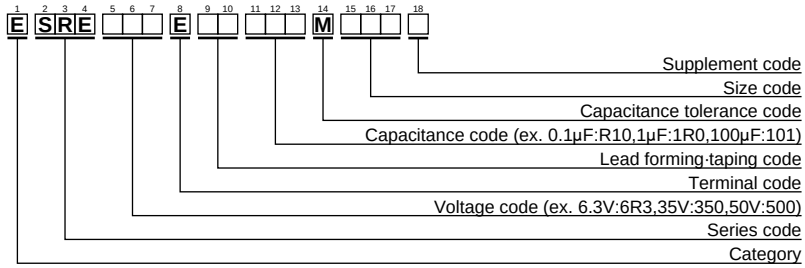
●Terminal Code : E



ϕD	3	3.5	4	5	6.3
ϕd	0.4	0.4	0.45	0.45	0.45
F	1.0	1.0	1.5	2.0	2.5
ϕD'	ϕD+0.5max.				
L'	L+1.0max.				

*ϕ3,ϕ3.5 : PVC

◆PART NUMBERING SYSTEM



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

SRE Series

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φDXL(mm)	tanδ	Rated ripple current (mArms/ 85℃,120Hz)	Part No.
4	33	4×5	0.35	23	ESRE4R0E□□330MD05D
6.3	10	3×5	0.24	12	ESRE6R3E□□100MB05N
	15	3.5×5	0.24	17	ESRE6R3E□□150MC05N
	22	4×5	0.24	23	ESRE6R3E□□220MD05D
	47	5×5	0.24	38	ESRE6R3E□□470ME05D
	100	6.3×5	0.24	60	ESRE6R3E□□101MF05D
10	6.8	3×5	0.20	11	ESRE100E□□6R8MB05N
	15	4×5	0.20	20	ESRE100E□□150MD05D
	33	5×5	0.20	35	ESRE100E□□330ME05D
	68	6.3×5	0.20	54	ESRE100E□□680MF05D
16	4.7	3×5	0.16	10	ESRE160E□□4R7MB05N
	6.8	3.5×5	0.16	14	ESRE160E□□6R8MC05N
	10	3.5×5	0.16	17	ESRE160E□□100MC05N
	15	5×5	0.16	26	ESRE160E□□150ME05D
	22	5×5	0.16	32	ESRE160E□□220ME05D
	47	6.3×5	0.16	50	ESRE160E□□470MF05D
25	3.3	3×5	0.14	9.3	ESRE250E□□3R3MB05N
	4.7	3.5×5	0.14	12	ESRE250E□□4R7MC05N
	6.8	4×5	0.14	16	ESRE250E□□6R8MD05D
	33	6.3×5	0.14	45	ESRE250E□□330MF05D
35	2.2	3×5	0.12	8.3	ESRE350E□□2R2MB05N
	3.3	3.5×5	0.12	11	ESRE350E□□3R3MC05N
	4.7	4×5	0.12	15	ESRE350E□□4R7MD05D
	6.8	5×5	0.12	20	ESRE350E□□6R8ME05D
	10	5×5	0.12	25	ESRE350E□□100ME05D
	15	6.3×5	0.12	33	ESRE350E□□150MF05D
	22	6.3×5	0.12	40	ESRE350E□□220MF05D
50	0.10	3×5	0.10	1.3	ESRE500E□□R10MB05N
	0.15	3×5	0.10	2.0	ESRE500E□□R15MB05N
	0.22	3×5	0.10	2.9	ESRE500E□□R22MB05N
	0.33	3×5	0.10	3.5	ESRE500E□□R33MB05N
	0.47	3×5	0.10	4.2	ESRE500E□□R47MB05N
	0.68	3×5	0.10	5.1	ESRE500E□□R68MB05N
	1.0	3×5	0.10	6.2	ESRE500E□□1R0MB05N
	1.5	3×5	0.10	7.5	ESRE500E□□1R5MB05N
	2.2	3.5×5	0.10	10	ESRE500E□□2R2MC05N
	3.3	4×5	0.10	14	ESRE500E□□3R3MD05D
	4.7	5×5	0.10	19	ESRE500E□□4R7ME05D
	6.8	6.3×5	0.10	24	ESRE500E□□6R8MF05D
	10	6.3×5	0.10	29	ESRE500E□□100MF05D

□□ : Lead forming / Taping code
Note : The case size of φ3.5×5 will be unified to φ4×5.