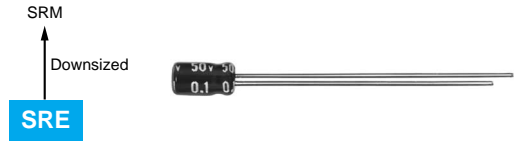


# SRE Series

- 5mm height
- Endurance : 1,000 hours at 85°C
- Non solvent resistant type
- RoHS Compliant

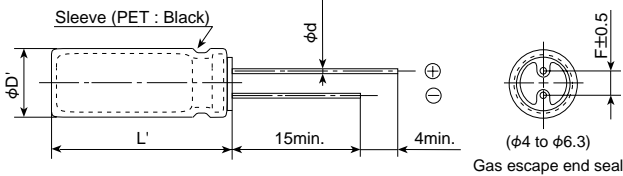


## ◆SPECIFICATIONS

Items	Characteristics								
Category	-40 to +85°C								
Temperature Range	-40 to +85°C								
Rated Voltage Range	4 to 50V <sub>dc</sub>								
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 (tanδ)	Rated voltage (V <sub>dc</sub> )	4V	6.3V	10V	16V	25V	35V	50V	(at 20°C, 120Hz)
	tanδ (Max.)	0.35	0.24	0.20	0.16	0.14	0.12	0.10	
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V <sub>dc</sub> )	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	10	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. (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°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. (tanδ)	≤200% of the initial specified value							
	Leakage current	≤The initial specified value							

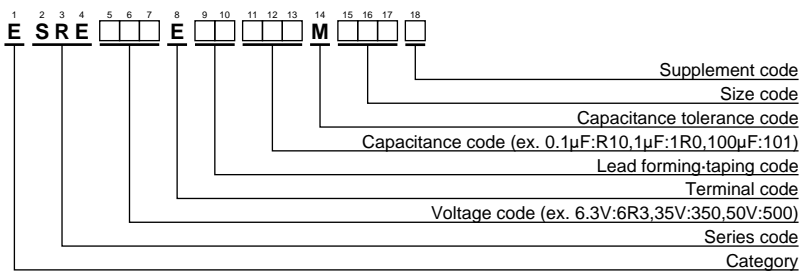
## ◆DIMENSIONS [mm]

- Terminal Code : E



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

## ◆PART NUMBERING SYSTEM



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

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φDXL(mm)	tanδ	Rated ripple current (mA <sub>rms</sub> /85°C,120Hz)	Part No.	WV (Vdc)	Cap (μF)	Case size φDXL(mm)	tanδ	Rated ripple current (mA <sub>rms</sub> /85°C,120Hz)	Part No.	
4	33	4×5	0.35	23	ESRE4R0E□□330MD05D	35	2.2	4×5	0.12	8.3	ESRE350E□□2R2MD05D	
	10	4×5	0.24	12	ESRE6R3E□□100MD05D		3.3	4×5	0.12	11	ESRE350E□□3R3MD05D	
6.3	15	4×5	0.24	17	ESRE6R3E□□150MD05D		4.7	4×5	0.12	15	ESRE350E□□4R7MD05D	
	22	4×5	0.24	23	ESRE6R3E□□220MD05D		6.8	5×5	0.12	20	ESRE350E□□6R8ME05D	
	47	5×5	0.24	38	ESRE6R3E□□470ME05D		10	5×5	0.12	25	ESRE350E□□100ME05D	
	100	6.3×5	0.24	60	ESRE6R3E□□101MF05D		15	6.3×5	0.12	33	ESRE350E□□150MF05D	
10	6.8	4×5	0.20	11	ESRE100E□□6R8MD05D		22	6.3×5	0.12	40	ESRE350E□□220MF05D	
	15	4×5	0.20	20	ESRE100E□□150MD05D		50	0.10	4×5	0.10	1.3	ESRE500E□□R10MD05D
	33	5×5	0.20	35	ESRE100E□□330ME05D			0.15	4×5	0.10	2.0	ESRE500E□□R15MD05D
68	6.3×5	0.20	54	ESRE100E□□680MF05D	0.22			4×5	0.10	2.9	ESRE500E□□R22MD05D	
16	4.7	4×5	0.16	10	ESRE160E□□4R7MD05D			0.33	4×5	0.10	3.5	ESRE500E□□R33MD05D
	6.8	4×5	0.16	14	ESRE160E□□6R8MD05D			0.47	4×5	0.10	4.2	ESRE500E□□R47MD05D
	10	4×5	0.16	17	ESRE160E□□100MD05D	0.68		4×5	0.10	5.1	ESRE500E□□R68MD05D	
	15	5×5	0.16	26	ESRE160E□□150ME05D	1.0		4×5	0.10	6.2	ESRE500E□□1R0MD05D	
	22	5×5	0.16	32	ESRE160E□□220ME05D	1.5		4×5	0.10	7.5	ESRE500E□□1R5MD05D	
25	47	6.3×5	0.16	50	ESRE160E□□470MF05D	2.2		4×5	0.10	10	ESRE500E□□2R2MD05D	
	3.3	4×5	0.14	9.3	ESRE250E□□3R3MD05D	3.3		4×5	0.10	14	ESRE500E□□3R3MD05D	
	4.7	4×5	0.14	12	ESRE250E□□4R7MD05D	4.7		5×5	0.10	19	ESRE500E□□4R7ME05D	
	6.8	4×5	0.14	16	ESRE250E□□6R8MD05D	6.8		6.3×5	0.10	24	ESRE500E□□6R8MF05D	
	33	6.3×5	0.14	45	ESRE250E□□330MF05D	10	6.3×5	0.10	29	ESRE500E□□100MF05D		

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

Note : □□ unified to φ4×5.