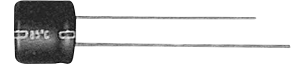
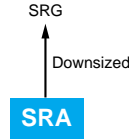


# SRA Series

- 7mm height
- Endurance : 1,000 hours at 85°C
- Non solvent-proof type
- RoHS Compliant

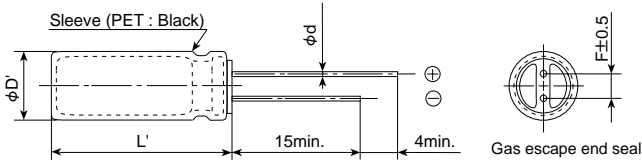


## ◆SPECIFICATIONS

Items	Characteristics									
Category	-40 to +85°C									
Temperature Range	-40 to +85°C									
Rated Voltage Range	4 to 63V <sub>dc</sub>									
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)									
Leakage Current	I=0.01CV or 3μA, whichever is greater. (at 20°C after 2 minutes)									
	Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)									
Dissipation Factor (tanδ)	Rated voltage (V <sub>dc</sub> )	4V	6.3V	10V	16V	25V	35V	50V	63V	
	tanδ (Max.)	0.35	0.24	0.20	0.16	0.14	0.12	0.10	0.08	(at 20°C, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V <sub>dc</sub> )	4V	6.3V	10V	16V	25V	35V	50V	63V	
	Z(-25°C)/Z(+20°C)	4	4	3	2	2	2	2	2	(at 120Hz)
	Z(-40°C)/Z(+20°C)	10	10	8	6	4	3	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 500 hours at 85°C 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								

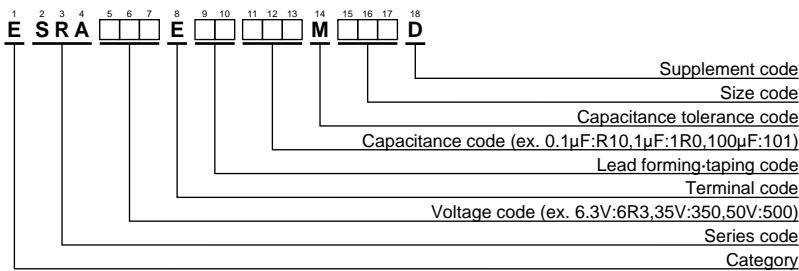
## ◆DIMENSIONS [mm]

- Terminal Code : E



	4	5	6.3	8
φD	4	5	6.3	8
φd	0.45	0.45	0.45	0.45
F	1.5	2.0	2.5	3.5
φD'	φD+0.5max.			
L'	L+1.0max.			

## ◆PART NUMBERING SYSTEM



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

### ◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φDXL(mm)	tanδ	Rated ripple current (mA rms/85°C, 120Hz)	Part No.	WV (Vdc)	Cap (μF)	Case size φDXL(mm)	tanδ	Rated ripple current (mA rms/85°C, 120Hz)	Part No.	
4	33	4×7	0.35	26	ESRA4R0E□□330MD07D	50	0.10	4×7	0.10	1.3	ESRA500E□□R10MD07D	
	47	4×7	0.35	34	ESRA4R0E□□470MD07D		0.22	4×7	0.10	2.9	ESRA500E□□R22MD07D	
	100	5×7	0.35	61	ESRA4R0E□□101ME07D		0.33	4×7	0.10	3.5	ESRA500E□□R33MD07D	
	220	6.3×7	0.35	95	ESRA4R0E□□221MF07D		0.47	4×7	0.10	5.0	ESRA500E□□R47MD07D	
	470	8×7	0.35	154	ESRA4R0E□□471MH07D		1.0	4×7	0.10	10	ESRA500E□□R10MD07D	
6.3	22	4×7	0.24	31	ESRA6R3E□□220MD07D		2.2	4×7	0.10	15	ESRA500E□□R22MD07D	
	47	5×7	0.24	47	ESRA6R3E□□470ME07D		3.3	4×7	0.10	18	ESRA500E□□R33MD07D	
	330	8×7	0.24	156	ESRA6R3E□□331MH07D		4.7	5×7	0.10	23	ESRA500E□□R47ME07D	
10	33	5×7	0.20	43	ESRA100E□□330ME07D		10	6.3×7	0.10	34	ESRA500E□□R100MF07D	
	100	6.3×7	0.20	80	ESRA100E□□101MF07D		22	6.3×7	0.10	57	ESRA500E□□R220MF07D	
	220	8×7	0.20	140	ESRA100E□□221MH07D		33	8×7	0.10	76	ESRA500E□□R330MH07D	
16	10	4×7	0.16	25	ESRA160E□□100MD07D		63	0.10	4×7	0.08	1.3	ESRA630E□□R10MD07D
	22	5×7	0.16	39	ESRA160E□□220ME07D			0.22	4×7	0.08	2.9	ESRA630E□□R22MD07D
	47	6.3×7	0.16	59	ESRA160E□□470MF07D	0.33		4×7	0.08	4.4	ESRA630E□□R33MD07D	
	100	6.3×7	0.16	97	ESRA160E□□101MF07D	0.47		4×7	0.08	7.9	ESRA630E□□R47MD07D	
25	33	6.3×7	0.14	53	ESRA250E□□330MF07D	1.0		4×7	0.08	11	ESRA630E□□R10MD07D	
	47	6.3×7	0.14	71	ESRA250E□□470MF07D	2.2		4×7	0.08	17	ESRA630E□□R22MD07D	
35	4.7	4×7	0.12	20	ESRA350E□□4R7MD07D	3.3		5×7	0.08	21	ESRA630E□□R33ME07D	
	10	5×7	0.12	30	ESRA350E□□100ME07D	4.7		6.3×7	0.08	26	ESRA630E□□R47MF07D	
	22	6.3×7	0.12	47	ESRA350E□□220MF07D	10		6.3×7	0.08	47	ESRA630E□□R100MF07D	
	33	6.3×7	0.12	64	ESRA350E□□330MF07D							
	47	8×7	0.12	83	ESRA350E□□470MH07D							

□□ : Lead forming / Taping code