SRE Series

● 85℃ 2,000Hrs assured.

SRE → DSA

Downsized

- Non-solvent proof.
- Height 5㎜.
- **RoHS compliant.**
- **Halogen-free capacitors are also available.**

SPECIFICATIONS

Item	Characteristics
Series	SRE
Reted Voltage range	4 ~ 50V_{DC}
Operating Temperature Range	-40 ~ +85℃
Capacitance Tolerance	±20% (M) (at 20℃, 120Hz)
Leakage Current	I=0.01CV (μA) or 3μA, whichever is greater. Where, I:Max.Leakage current(μA), C:Nominal capacitance(μF), V:Rated voltage(V_{DC}) (at 20℃, 2 minutes)
Disspation Factor **(Tan δ)**	Rated Voltage(V_{DC}) 4 6.3 10 16 25 35 50 Tan δ(Max.) 0.35 0.24 0.20 0.16 0.14 0.12 0.10 ※ SRE 6.3 VB 330(0.35), 10 VB 220(0.24), 16 VB 4.7(0.19) (at 20℃, 120Hz)
Temperature **Characteristics** **(Max.Impedance ratio)**	Rated voltage(V_{DC}) 4 6.3 10 16 25 35~50 Z(-25℃)/Z(20℃) 7 4 3 2 2 2 Z(-40℃)/Z(20℃) 15 10 8 6 4 3 (at 120Hz)
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied for 2,000hours at 85℃. Capacitance change ≤ ±20% of the initial value 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℃ after exposing them for 1,000 hours at 85℃ without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurement. Capacitance change ≤ ±20% of the initial value tan δ ≤ 200% of the initial specified value Leakage current ≤ 200% of the initial specified value
Others	Satisfied characteristics W of KS C 6421

RATINGS OF SRE Series

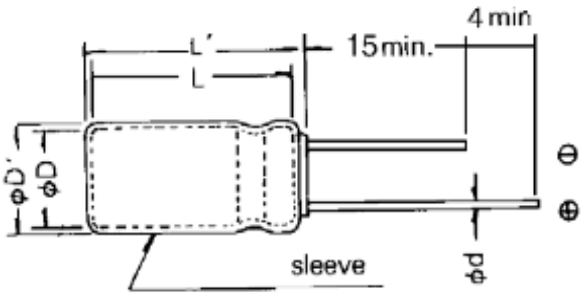
μF \ V_{DC}	4(0G)		6.3(0J)		10(1A)		16(1C)		25(1E)		35(1V)		50(1H)	
0.1													3 × 5	1.3
0.15													3 × 5	2.0
0.22													3 × 5	2.9
0.33													3 × 5	3.5
0.47													3 × 5	4.2
0.68													3 × 5	5.1
1.0													3 × 5	6.2
1.5													3 × 5	7.5
2.2											3 × 5	8.3	3.5 × 5	10
3.3									3 × 5	9.5	3.5 × 5	11	4 × 5	14
4.7							3 × 5	10	3.5 × 5	12	4 × 5	15	5 × 5	19
6.8					3 × 5	11	3.5 × 5	14	4 × 5	16	5 × 5	20	6.3 × 5	24
10			3 × 5	12	3.5 × 5	15	3.5 × 5	17	5 × 5	23	5 × 5	25	6.3 × 5	29
15	3.5 × 5	14	3.5 × 5	17	4 × 5	20	5 × 5	26	6.3 × 5	30	6.3 × 5	33	8 × 5	44
22	4 × 5	19	4 × 5	23	5 × 5	29	5 × 5	32	6.3 × 5	37	6.3 × 5	40	8 × 5	53
33	4 × 5	23	5 × 5	32	5 × 5	35	6.3 × 5	42	6.3 × 5	45	8 × 5	56	8 × 5	61
47	4 × 5	28	5 × 5	38	6.3 × 5	45	6.3 × 5	50	6.3 × 5	59	8 × 5	65		
68	5 × 5	33	6.3 × 5	50	6.3 × 5	54	8 × 5	71	8 × 5	74				
100	5 × 5	48	6.3 × 5	60	6.3 × 5	72	8 × 5	86	8 × 5	90				
150	6.3 × 5	70	8 × 5	76	8 × 5	88								
220	6.3 × 5	79	8 × 5	93	8 × 5	98								
330	8 × 5	95	8 × 5	141										

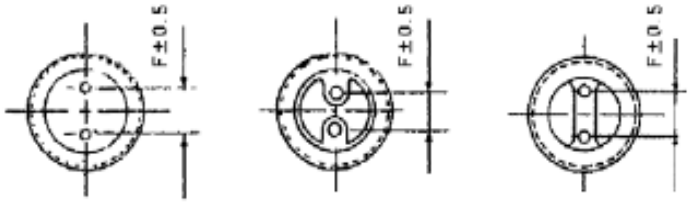
Rated Ripple Current (mArms/ 85℃, 120Hz)

Case Size ØD×L (㎜)

DIMEMSIONS OF SRE Series

Unit (mm)





ø D	3	3.5	4	5	6.3	8
ø d	0.4	0.4	0.45	0.45	0.45	0.45
F	1.0	1.0	1.5	2.0	2.5	2.5
ø D'	ø D + 0.5 max.					
L'	L + 1.0 max.					L+1.5 max.

Marking : BLACK SLEEV, WHITE INK