

SA 7mmL, For General Purposes series

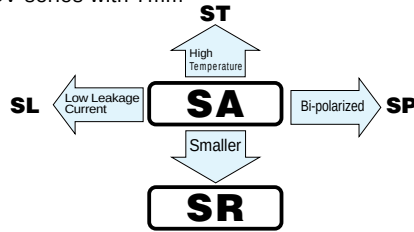
- Standard miniature series with 7mm height.

SR 7mmL, High CV series

- Higher CV series with 7mm height.



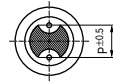
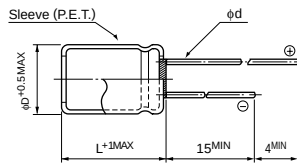
Smaller (SR series) Anti-Solvent Feature



Specifications

Item	SA series				SR series				
Category Temperature Range	- 40 ~ +85°C				-40 ~ +85°C				
Rated Voltage Range	6.3 ~ 50V				4 ~ 50V				
Rated Capacitance Range	0.1 ~ 220μF				0.1 ~ 470μF				
Capacitance Tolerance	±20% at 120Hz, 20°C								
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3 (μA), whichever is greater.								
tan δ	Measurement frequency : 120Hz, Temperature : 20°C								
	Rated voltage (V)	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	
Stability at Low Temperature	Measurement frequency : 120Hz								
	Rated voltage (V)		4	6.3	10	16	25	35	50
	Impedance ratio	Z-25°C / Z+20°C	6	4	3	2	2	2	2
	ZT / Z20 (MAX.)	Z-40°C / Z+20°C	12	8	6	4	4	3	3
Endurance	After 2000 hours' application of rated voltage at 85°C, capacitors meet the characteristic requirements listed at right.				Capacitance change		Within ±20% of initial value		
					tan δ		200% or less of initial specified value		
					Leakage current		Initial specified value or less		
Shelf Life	After leaving capacitors under no load at 85°C for 1000 hours, they meet the specified value for endurance characteristics listed above.								
Marking	Printed with white color letter on black sleeve.								

Radial Lead Type



(mm)	4	5	6.3	8
φD	4	5	6.3	8
P	1.5	2.0	2.5	3.5
φd	0.45	0.45	0.45	0.5

Type numbering system (Example : SA series : 10V 33μF)

1 2 3 4 5 6 7 8 9 10 11
U S A 1 A 3 3 0 M D D

Configuration※
Capacitance tolerance (±20%)
Rated Capacitance (33 μF)
Rated voltage (10V)
Series name
Type

※ Configuration

φ D	Pb-free leadwire Pb-free PET sleeve	Sn-Pb finished leadwire PVC sleeve (containing Pb)
4 ~ 6.3	DD	DA
8	DD	CA

※ Please contact to us if other configurations are required.

Dimensions

V(Code) Cap.(μF) Series Code		4 (0G)		6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)	
		SR	SA	SR	SA	SR	SA	SR	SA	SR	SA	SR	SA	SR	
0.1	0R1													4 × 7 1.0	4 × 7 1.0
0.22	R22													4 × 7 2.3	4 × 7 2.3
0.33	R33													4 × 7 3.5	4 × 7 3.5
0.47	R47													4 × 7 5.0	4 × 7 5.0
1	010													4 × 7 10	4 × 7 10
2.2	2R2													4 × 7 19	4 × 7 19
3.3	3R3													4 × 7 24	4 × 7 24
4.7	4R7											4 × 7 24	4 × 7 24	5 × 7 29	4 × 7 28
10	100							4 × 7 28	4 × 7 28	5 × 7 33	4 × 7 28	5 × 7 36	4 × 7 31	6.3 × 7 44	5 × 7 38
22	220		4 × 7 34	4 × 7 34	5 × 7 38	4 × 7 35	5 × 7 44	4 × 7 39	6.3 × 7 51	5 × 7 48	6.3 × 7 57	5 × 7 52	8 × 7 65	8 × 7 65	6.3 × 7 58
33	330	4 × 7 33	5 × 7 42	4 × 7 40	5 × 7 47	4 × 7 43	6.3 × 7 57	5 × 7 55	6.3 × 7 63	5 × 7 58	8 × 7 72	6.3 × 7 65			8 × 7 75
47	470	4 × 7 39	5 × 7 50	4 × 7 48	6.3 × 7 59	5 × 7 59	6.3 × 7 68	5 × 7 65	8 × 7 78	6.3 × 7 71			8 × 7 85		
100	101	5 × 7 65	6.3 × 7 77	5 × 7 78	8 × 7 96	6.3 × 7 87	8 × 7 107	6.3 × 7 98		8 × 7 115					
220	221	6.3 × 7 110	8 × 7 130	6.3 × 7 120		8 × 7 145		8 × 7 150							
330	331	8 × 7 165		8 × 7 180											
470	471	8 × 7 240													Case size Rated ripple

Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz~
Coefficient	0.70	1.00	1.17	1.36	1.50

Rated Ripple (mA rms) at 85°C 120Hz

Please refer to page 19, 20, 21 about the formed or taped product spec.
Please refer to page 3 for the minimum order quantity.

CAT.8100T