7mmL, For General Purposes

- Standard miniature series with 7mm height.
- Compliant to the RoHS directive (2011/65/EU).

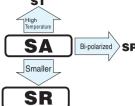
7mmL, High CV series

 Higher CV series with 7mm height.







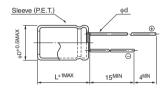




## ■ Specifications

Item		SA series	3		SR series						
Category Temperature Range	– 40 to +85°C				-40 to +85°C						
Rated Voltage Range	6.3 to 50V				4 to 50V						
Rated Capacitance Range	0.1 to 220μF				0.1 to 470μF						
Capacitance Tolerance	±20% at 120Hz, 20°C										
Leakage Current	After 2 minutes' application of	of rated volta	age at 20°C, lea	akage current is	not more than (	0.01CV or 3 (	μΑ), whicheve	r is greater.			
	Measurement frequency: 120Hz at 20°C										
Tangent of loss angle (tan δ)	Rated voltage (V)	4	6.3	10	16	16 25		35	50		
	tan δ (MAX.) 0	0.35	0.24	0.20	0.16	0.	14	0.12	0.10		
	Measurement frequency : 120Hz										
	Rated voltage (V)		4	6.3	10	16	25	35	50		
Stability at Low Temperature	Impedance ratio Z-25°C	C / Z+20°C	6	4	3	2	2	2	2		
	ZT / Z20 (MAX.) Z-40°C	C / Z+20°C	12	8	6	4	4	3	3		
Endurance	The specifications listed at ri capacitors are restored to 20 applied for 2000 hours at 85	0°C after the		s tan δ	citance change Within ±20% of the initial capacitance value 200% or less than the initial specified value age current Less than or equal to the initial specified value						
Shelf Life	After storing the capacitors under no load at 85°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.							clause 4.1 at			
Marking	Printed with white color letter on black sleeve.										

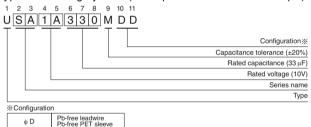
## ■ Radial Lead Type





				(111111)
φD	4	5	6.3	8
Р	1.5	2.0	2.5	3.5
φd	0.45	0.45	0.45	0.5

## Type numbering system (Example : SA series : $10V 33\mu F$ )



## **■** Dimensions

V(Code)		4 (0G)	6.3	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)	
Cap.(μF)	Series	SR	SA	SR	SA	SR	SA	SR	SA	SR	SA	SR	SA	SR	
0.1	0R1												4×7	4×7	
0.1	Uni												1.0	1.0	
0.22	R22												4×7	4×7	
-													2.3 4 × 7	2.3 4 × 7	
0.33	R33												3.5	3.5	
0.47	D 47												4 × 7	4 × 7	
0.47	R47												5.0	5.0	
1	010												4 × 7	4×7	
•	010												10	10	
2.2	2R2												4 × 7 19	4 × 7 19	
													4 × 7	4 × 7	
3.3	3R3			<del> </del>							<del> </del>		<del>4</del> ×/ 24	<del>4</del> ×7	
4.7	407										4 × 7	4 × 7	5 × 7	4×7	
4.7	4R7										24	24	29	28	
10	100						4×7	4×7	5 × 7	4×7	5×7	4 × 7	6.3 × 7	5 × 7	
.0	100						28	28	33	28	36	31	44	38	
22	220		4 × 7	4×7	5 × 7	4 × 7	5×7	4 × 7	6.3 × 7	5×7	6.3 × 7	5 × 7	8×7	6.3 × 7	
		4 × 7	34	34 4×7	38 5 × 7	35 4 × 7	44	39 5 × 7	51	48 5 × 7	57 8 × 7	52 6.3 × 7	65	58 8 × 7	
33	330	33	5 × 7 42	4× / 40	47 47	43 43	6.3 × 7 57	55 × 7	6.3 × 7	5×7 58	72	65 65		75	
		4 × 7	5 × 7	4×7	6.3 × 7	5 × 7	6.3 × 7	5 × 7	8 × 7	6.3 × 7	12	8 × 7		7.5	
47	470	39	50	48	59	59	68	65	78	71		85			
100	101	5 × 7	6.3 × 7	5 × 7	8 × 7	6.3 × 7	8 × 7	6.3 × 7		8 × 7					
100	101	65	77	78	96	87	107	98		115					
220	221	6.3×7	8×7	6.3 × 7		8 × 7	ļ	8×7							
		110	130	120		145		150							
330	331	8 × 7 165		8×7 180			<del> </del>				<del> </del>			<del></del>	
		8 × 7		100					-				Case size d	D × L (mm)	
470	471	240		<del> </del>			<del> </del>				<del> </del>			ripple	

4 to 8

## • Frequency coefficient of rated ripple current

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

Rated ripple current (mArms) at 85°C 120Hz

Please refer to page 20, 21, 22 about the formed or taped product spec. Please refer to page 4 for the minimum order quantity.

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