

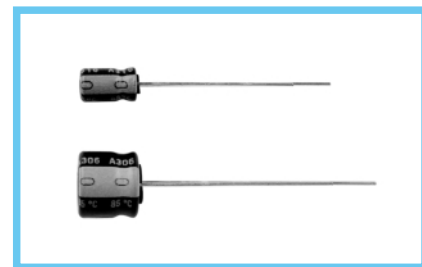
SL series

7mmL, Low Leakage Current



- Low leakage current series with 7mm height.
- Adapted to the RoHS directive (2002/95/EC).

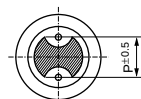
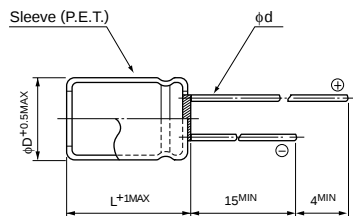
SA $\xrightarrow{\text{Low Leakage Current}}$ SL



Specifications

Item	Performance Characteristics													
Category Temperature Range	-40 ~ +85°C													
Rated Voltage Range	6.3 ~ 50V													
Rated Capacitance Range	0.1 ~ 220μF													
Capacitance Tolerance	±20% at 120Hz, 20°C													
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.002CV or 0.4 (μA), whichever is greater.													
tan δ	Measurement frequency : 120Hz, Temperature : 20°C													
	Rated voltage (V)	6.3	10	16	25	35	50							
	tan δ (MAX.)	0.24	0.20	0.16	0.14	0.12	0.10							
Stability at Low Temperature	Measurement frequency : 120Hz													
	Rated voltage (V)		6.3	10	16	25	35	50						
	Impedance ratio	Z-25°C / Z+20°C	4	3	2	2	2	2						
	ZT / Z20 (MAX.)	Z-40°C / Z+20°C	8	6	4	4	3	3						
Endurance	After 1000 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 storing the capacitors under no load at 85°C for 1000 hours, and after performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they will meet the specified value for endurance characteristics listed above.													
Marking	Printed with white color letter on black sleeve.													

Radial Lead Type



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

Type numbering system (Example : 10V 33μF)

1	2	3	4	5	6	7	8	9	10	11
U	S	L	1	A	3	3	0	M	D	D
			Configuration※							
			Capacitance tolerance (±20%)							
			Rated Capacitance (33μF)							
			Rated voltage (10V)							
			Series name							
			Type							
※ Configuration										
φ D		Pb-free leadwire Pb-free PET sleeve								
4 ~ 8		DD								

Dimensions

V	6.3	10	16	25	35	50
Cap. (μF)	0J	1A	1C	1E	1V	1H
0.1	0R1					4 × 7
0.22	R22					4 × 7
0.33	R33					4 × 7
0.47	R47					4 × 7
1	010					4 × 7
2.2	2R2					4 × 7
3.3	3R3					4 × 7
4.7	4R7					4 × 7
10	100					4 × 7
22	220	4 × 7	34	5 × 7	38	5 × 7
33	330	5 × 7	42	5 × 7	47	6.3 × 7
47	470	5 × 7	50	6.3 × 7	59	6.3 × 7
100	101	6.3 × 7	77	8 × 7	96	8 × 7
220	221	8 × 7	130			

Rated Ripple (mA rms) at 85°C 120Hz

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

Please refer to page 21, 22, 23 about the formed or taped product spec.
Please refer to page 3 for the minimum order quantity.