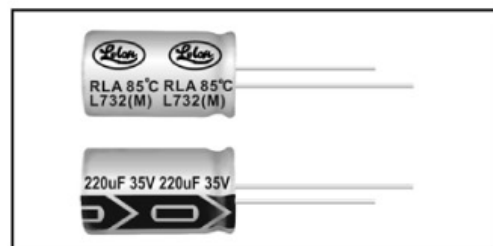


Feature

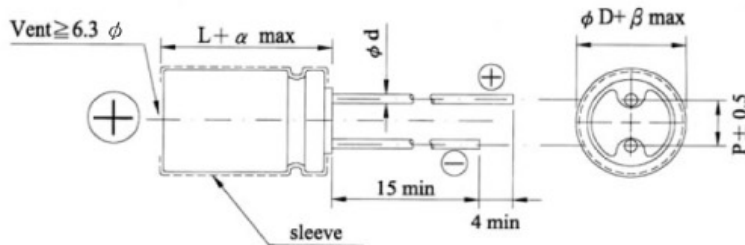
- 85°C, standard low leakage current series
- RoHS Compliance



SPECIFICATIONS

Items	Performance																										
Life	At 85°C, 2,000 hrs																										
Operating Temperature Range	-40°C ~ +85°C																										
Capacitance Tolerance	±20% (at 120Hz, 20°C)																										
Leakage Current (at 20°C)	I = 0.002CV or 0.4 (μA) whichever is greater (after 2 minutes) Where, C = rated capacitance in μF V = rated DC working voltage in V																										
Dissipation Factor (Tan δ at 120Hz, 20°C)	<table><tr><td>Rated Voltage</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td></tr><tr><td>Tan δ (max)</td><td>0.24</td><td>0.21</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td><td>0.09</td><td>0.08</td></tr></table>									Rated Voltage	6.3	10	16	25	35	50	63	100	Tan δ (max)	0.24	0.21	0.16	0.14	0.12	0.10	0.09	0.08
	Rated Voltage	6.3	10	16	25	35	50	63	100																		
Tan δ (max)	0.24	0.21	0.16	0.14	0.12	0.10	0.09	0.08																			
When the capacitance exceeds 1,000 μF, 0.02 shall be added every 1,000μF increase.																											
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below.																										
	Rated Voltage		6.3	10	16	25	35	50	63	100																	
	Impedance Ratio	Z(-25°C)/Z(+20°C)	5	4	2	2	2	2	2	2																	
Z(-40°C)/Z(+20°C)		10	8	6	4	4	3	3	3																		
Load Life Test	Test Time		2,000 hrs																								
	Capacitance Change		Within ±20% of initial value																								
	Dissipation Factor		Less than 200% of specified value																								
	Leakage Current		Within specified value																								
	* The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied with rated ripple current for 2,000 hrs at 85°C.																										
Shelf Life Test	Test Time		1,000 hrs																								
	Capacitance Change		Within ±20% of initial value																								
	Dissipation Factor		Less than 200% of specified value																								
	Leakage Current		Within specified value																								
	* The above specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hrs at 85°C without voltage applied.																										
Ripple Current & Frequency Multipliers	Freq.(Hz)		60 (50)	120	500	1K	10K up																				
	Under 100		0.70	1.00	1.35	1.55	2.00																				
	100 < C ≤ 1,000		0.83	1.00	1.23	1.32	1.50																				
	1,000 up above		0.90	1.00	1.12	1.10	1.15																				
	Cap.(μF)																										

DIAGRAM OF DIMENSIONS



LEAD SPACING AND DIAMETER Unit: mm

ϕ D	5	6.3	8	10	12.5	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
ϕ d	0.5		0.6			0.8	
α	1.0			1.5			
β	0.5						

Dimension: φ D × L(mm)

Ripple Current: mA/rms at 120 Hz, 85°C

DIMENSION & PERMISSIBLE RIPPLE CURRENT

μF	V. DC Contents	6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)		63V (1J)		100V (2A)	
		φ D×L	mA	φ D×L	mA	φ D×L	mA	φ D×L	mA	φ D×L	mA	φ D×L	mA	φ D×L	mA	φ D×L	mA
0.1	0R1											5×11	1.3			5×11	2.6
0.22	R22											5×11	2.9			5×11	5.8
0.33	R33											5×11	4.4			5×11	8.8
0.47	R47											5×11	7			5×11	12
1	010											5×11	13			5×11	22
2.2	2R2											5×11	29			5×11	33
3.3	3R3											5×11	35			5×11	40
4.7	4R7							5×11	31	5×11	40	5×11	42	5×11	45	5×11	48
10	100					5×11	44	5×11	54	5×11	58	5×11	65	5×11	70	6.3×11	80
22	220			5×11	59	5×11	75	5×11	80	5×11	87	5×11	95	6.3×11	115	8×11.5	135
33	330	5×11	55	5×11	84	5×11	90	5×11	97	5×11	105	6.3×11	125	6.3×11	140	10×12.5	195
47	470	5×11	79	5×11	100	5×11	110	5×11	115	6.3×11	145	6.3×11	150	8×11.5	190	10×16	255
100	101	5×11	130	5×11	145	6.3×11	180	6.3×11	190	8×11.5	240	8×11.5	255	10×12.5	320	12.5×20	450
220	221	6.3×11	230	6.3×11	250	8×11.5	300	8×11.5	320	10×12.5	420	10×16	490	10×20	565	16×25	810
330	331	6.3×11	280	8×11.5	350	8×11.5	370	10×12.5	470	10×16	570	10×20	650	12.5×20	765	16×25	990
470	471	8×11.5	380	8×11.5	415	10×12.5	520	10×16	620	10×20	740	12.5×20	860	12.5×25	990	16×31.5	1,250
1,000	102	10×12.5	650	10×16	790	10×20	910	12.5×20	1,090	12.5×25	1,300	16×25	1,530	16×31.5	1,700		
2,200	222	12.5×20	1,150	12.5×20	1,240	12.5×25	1,420	16×25	1,660	16×31.5	1,890	18×35.5	2,160				
3,300	332	12.5×20	1,380	12.5×25	1,590	16×25	1,840	16×31.5	2,070	18×35.5	2,340						
4,700	472	16×25	1,880	16×25	1,980	16×31.5	2,260	18×35.5	2,520	18×40	2,690						