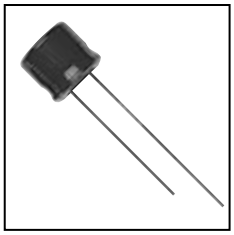
RADIAL TYPE

SL Series 7mmL 105°C, Low Impedance

JAMICON®

• High ripple current, low impedance series with 7mm height.

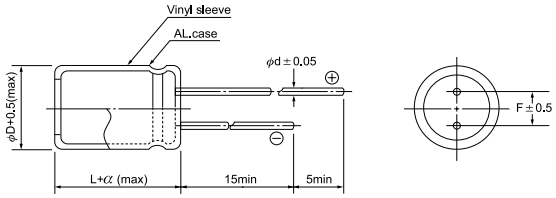


SPECIFICATION

Item	Characteristic						
Operation Temperature Range	-55 ~ +105°C						
Rated Working Voltage	6.3 ~ 50VDC						
Capacitance Tolerance (120Hz 20°C)	±20%(M)						
Leakage Current (20°C)	I ≦0.01CV or 3 (μA) *Whichever is greater after 3 minutes				I : Leakage Current (μA) C : Rated Capacitance (μF) V : Working Voltage (V)		
Surge Voltage (20°C)	W.V.	6.3	10	16	25	35	50
	S.V.	8	13	20	32	44	63
Dissipation Factor (tan δ) (120Hz 20°C)	W.V.	6.3	10	16	25	35	50
	tan δ	0.22	0.19	0.16	0.14	0.12	0.10
Low Temperature Stability	Impedance ratio at 120Hz						
	Rated Voltage (V)	6.3	10	16	25	35	50
	-25°C / +20°C	3	3	3	2	2	2
	-55°C / +20°C	6	6	6	4	4	4
Load Life	After 1000 hours application of W.V. and +105°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage ≦ rate working voltage)						
	Capacitance Change	≦±20% of initial value					
	Dissipation Factor	≦200% of initial specified value					
	Leakage current	≦initial specified value					
Shelf Life	At +105°C no voltage application after 1000 hours the capacitor shall meet the limits for load life characteristics. (with voltage treatment)						

DIMENSIONS (mm)

φD	4	5	6.3	8
F	1.5	2.0	2.5	3.5
d	0.45	0.45	0.45	0.50
α	1.0	1.0	1.0	1.0



RIPPLE CURRENT COEFFICIENTS

Temperature(°C)	65	75	85	95	105
Multiplier	2.12	1.92	1.69	1.50	1.00

Frequency(Hz)	60	120	400	1k	10k	100k
W.V.	Multiplier					
6.3~16V	0.45	0.60	0.83	0.94	0.98	1.00
25~35V	0.38	0.50	0.75	0.90	0.97	1.00
50V	0.36	0.46	0.70	0.88	0.94	1.00

CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
Max impedance : Ω 100kHz
Max ripple current : mA(rms) 105°C 100kHz

V(Code) / Item / μF / Code	6.3 (0J)				10 (1A)			
	DxL	IMP. 20°C	IMP. -10°C	R.C.	DxL	IMP. 20°C	IMP. -10°C	R.C.
15 / 150				→	4x7	1.592	4.775	80
22 / 220	4x7	1.191	3.572	80	4x7	1.184	3.552	95
27 / 270	4x7	1.051	3.153	90	4x7	1.045	3.135	100
33 / 330	4x7	0.926	2.778	100	4x7	0.921	2.763	110
39 / 390	4x7	0.839	2.518	110	5x7	0.835	2.505	140
47 / 470	5x7	0.629	1.886	130	5x7	0.568	1.705	160
56 / 560	5x7	0.561	1.682	150	5x7	0.507	1.521	170
68 / 680	5x7	0.489	1.467	160	6.3x7	0.442	1.326	210
82 / 820	6.3x7	0.450	1.351	200	6.3x7	0.407	1.222	230
100 / 101	6.3x7	0.406	1.219	220	6.3x7	0.367	1.102	260
120 / 121	6.3x7	0.346	1.039	250	6.3x7	0.313	0.939	280
150 / 151	6.3x7	0.283	0.850	280	8x7	0.256	0.768	370
180 / 181	8x7	0.246	0.739	350				
220 / 221	8x7	0.210	0.630	390				

V(Code) / Item / μF / Code	16 (1C)				25 (1E)			
	DxL	IMP. 20°C	IMP. -10°C	R.C.	DxL	IMP. 20°C	IMP. -10°C	R.C.
10 / 100	4x7	1.416	4.249	75	4x7	1.332	3.995	95
15 / 150	4x7	1.039	3.116	90	4x7	0.977	2.930	110
18 / 180	4x7	0.897	2.692	100	5x7	0.851	2.552	140
22 / 220	4x7	0.772	2.317	100	5x7	0.726	2.179	150
27 / 270	5x7	0.682	2.046	130	6.3x7	0.641	1.923	190
33 / 330	5x7	0.601	1.802	140	6.3x7	0.565	1.695	210
39 / 390	6.3x7	0.545	1.634	180	6.3x7	0.512	1.537	220
47 / 470	6.3x7	0.482	1.446	190	6.3x7	0.453	1.360	250
56 / 560	6.3x7	0.430	1.290	210	8x7	0.404	1.213	310
68 / 680	6.3x7	0.375	1.125	230	8x7	0.352	1.057	340
82 / 820	6.3x7	0.345	1.036	260				
100 / 101	6.3x7	0.312	0.935	280				

V(Code) / Item / μF / Code	35 (1V)				50 (1H)			
	DxL	IMP. 20°C	IMP. -10°C	R.C.	DxL	IMP. 20°C	IMP. -10°C	R.C.
4.7 / 4R7	4x7	2.760	8.280	70	4x7	2.758	8.274	90
6.8 / 6R8	4x7	2.385	7.154	80	5x7	2.383	7.149	110
10 / 100	5x7	0.998	2.994	110	6.3x7	0.499	1.496	150
15 / 150	5x7	0.732	2.195	140	6.3x7	0.366	1.097	180
18 / 180	6.3x7	0.638	1.913	170	6.3x7	0.319	0.956	200
22 / 220	6.3x7	0.544	1.633	180	8x7	0.272	0.816	240
27 / 270	6.3x7	0.480	1.441	200	8x7	0.240	0.720	270
33 / 330	8x7	0.423	1.270	250	8x7	0.212	0.635	290
39 / 390	8x7	0.384	1.151	270				
47 / 470	8x7	0.340	1.019	300				

All blank voltage on sleeve marking is the same voltage as" → "point to.