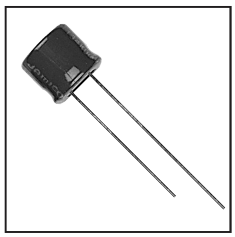
SL Series 7mmL 105°C, Low Impedance

JAMICON

- High ripple current, low impedance series with 7mm height.
- Corresponding product to RoHS

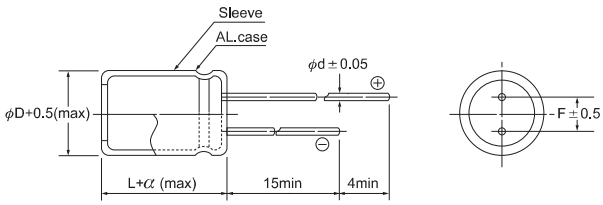


SPECIFICATION

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

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

V(DC) / Item / μF	35				50			
	DxL	IMP. 20°C	IMP. -10°C	R.C.	DxL	IMP. 20°C	IMP. -10°C	R.C.
4.7				→	4x7	2.758	8.274	90
6.8				→	5x7	2.383	7.149	110
10	5x7	0.998	2.994	110	6.3x7	0.499	1.496	150
15	5x7	0.732	2.195	140	6.3x7	0.366	1.097	180
18	6.3x7	0.638	1.913	170	6.3x7	0.319	0.956	200
22	6.3x7	0.544	1.633	180	8x7	0.272	0.816	240
27	6.3x7	0.480	1.441	200	8x7	0.240	0.720	270
33	8x7	0.423	1.270	250	8x7	0.212	0.635	290
39	8x7	0.384	1.151	270				
47	8x7	0.340	1.019	300				

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