RADIAL TYPE

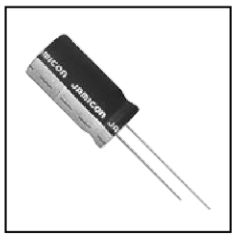
TL Series

Long Life, Low Impedance, High Reliability

WG ← → TH

JAMICON®

- Low impedance and long life with standing 5000 hours load life.
- Suitable for electronic ballast, adaptor and switching power.

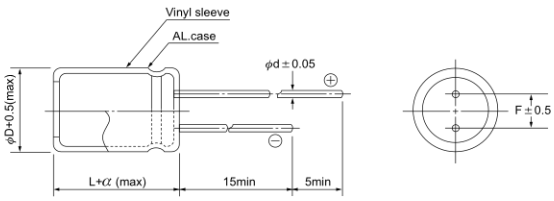


SPECIFICATION

Item	Characteristic							
Operation Temperature Range	-55 ~ +105°C							
Rated Working Voltage	6.3 ~ 63VDC							
Capacitance Tolerance (120Hz 20°C)	±20%(M)							
Leakage Current (20°C)	I ≦0.01CV or 3 (μA) Whichever is greater after 2 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	63
	S.V.	8	13	20	32	44	63	79
Dissipation Factor (tan δ) (120Hz 20°C)	Add 0.02 per 1000 μF for more than 1000 μF							
	W.V.	6.3	10	16	25	35	50	63
	tan δ	0.22	0.19	0.16	0.14	0.12	0.10	0.09
Low Temperature Stability	Impedance ratio at 120Hz							
	Rated Voltage (V)	6.3	10	16	25	35	50	63
	-25°C / +20°C	2	2	2	2	2	2	2
	-55°C / +20°C	3	3	3	3	3	3	3
Load Life	After hours (φ5~6.3mm 2000 hours, φ8mm 3000 hours, φD≧10mm 5000 hours) application of W.V. at +105°C, the capacitor shall meet the following limits.							
	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 following limits. (with voltage treatment)							
	Capacitance Change	≦±20% of initial value						
	Dissipation Factor	≦150% of initial specified value						
	Leakage current	≦200% of initial specified value						

DIMENSIONS (mm)

φD	5	6.3	8	10	12.5	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
d	0.5	0.5	0.6	0.6	0.6	0.8	0.8
α	1.5	1.5	1.5	1.5	1.5	1.5	1.5



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 : A(rms) 105°C 100kHz

μF	Code \ V(Code)	6.3 (0J)				10 (1A)				16 (1C)			
	Item	DxL	IMP. 20°C	IMP. -10°C	R.C.	DxL	IMP. 20°C	IMP. -10°C	R.C.	DxL	IMP. 20°C	IMP. -10°C	R.C.
47	470									5x11	0.568	1.421	0.15
68	680									5x11	0.500	1.250	0.18
100	101					5x11	0.500	1.250	0.21	6.3x11	0.367	0.918	0.25
220	221	6.3x11	0.308	0.769	0.34	6.3x11	0.249	0.623	0.35	8x11.5	0.190	0.474	0.43
330	331	6.3x11	0.246	0.615	0.42	8x11.5	0.169	0.423	0.51	10x12.5	0.114	0.285	0.55
470	471	8x11.5	0.178	0.446	0.58	8x11.5	0.139	0.346	0.60	10x12.5	0.093	0.233	0.66
680	681	10x12.5	0.081	0.203	0.74	10x12.5	0.077	0.194	0.76	10x16	0.074	0.184	0.88
1000	102	8x20	0.066	0.166	1.08	10x16	0.063	0.158	1.03	10x20	0.060	0.150	1.18
1200	122	10x16	0.058	0.144	1.09	10x20	0.055	0.137	1.24	10x25	0.052	0.130	1.43
1500	152	10x20	0.049	0.123	1.30	10x25	0.047	0.116	1.48	12.5x20	0.044	0.111	1.48
2200	222	10x25	0.038	0.094	1.68	12.5x20	0.036	0.090	1.67	12.5x25	0.034	0.086	1.91
3300	332	12.5x20	0.032	0.079	1.87	12.5x25	0.030	0.075	2.12	16x25	0.029	0.057	2.20
4700	472	12.5x30	0.027	0.067	2.47	16x25	0.025	0.051	2.35	16x31.5	0.024	0.048	2.67
6800	682	16x25	0.024	0.048	2.53	16x31.5	0.023	0.045	2.85	18x35.5	0.022	0.043	3.28
10000	103	16x31.5	0.022	0.043	3.00	18x35.5	0.021	0.041	3.43	18x40	0.019	0.039	3.67
15000	153	18x35.5	0.020	0.041	3.61	18x40	0.019	0.039	3.85				

μF	Code \ V(Code)	25 (1E)				35 (1V)			
	Item	DxL	IMP. 20°C	IMP. -10°C	R.C.	DxL	IMP. 20°C	IMP. -10°C	R.C.
4.7	4R7					5x11	1.912	4.781	0.07
10	100					5x11	1.498	3.745	0.10
22	220					5x11	0.817	2.043	0.14
33	330					5x11	0.636	1.589	0.17
47	470	5x11	0.539	1.348	0.19	6.3x11	0.510	1.275	0.24
68	680	6.3x11	0.419	1.049	0.26	6.3x11	0.397	0.991	0.28
100	101	6.3x11	0.349	0.871	0.31	8x11.5	0.330	0.824	0.40
220	221	8x11.5	0.180	0.450	0.54	10x12.5	0.128	0.319	0.63
330	331	10x12.5	0.108	0.270	0.70	10x16	0.102	0.255	0.85
470	471	10x16	0.088	0.221	0.92	10x20	0.084	0.209	1.12
680	681	10x20	0.070	0.175	1.22	12.5x20	0.066	0.165	1.44
1000	102	12.5x20	0.057	0.143	1.58	12.5x25	0.054	0.135	1.93
1200	122	12.5x20	0.050	0.124	1.73	12.5x30	0.047	0.117	2.29
1500	152	12.5x25	0.042	0.105	2.04	16x25	0.040	0.079	2.25
2200	222	16x25	0.032	0.065	2.39	16x31.5	0.031	0.077	2.88
3300	332	16x31.5	0.027	0.054	3.02	18x35.5	0.026	0.064	3.65
4700	472	18x35.5	0.023	0.046	3.70				

μF	Code \ V(Code)	50 (1H)				63 (1J)			
	Item	DxL	IMP. 20°C	IMP. -10°C	R.C.	DxL	IMP. 20°C	IMP. -10°C	R.C.
4.7	4R7	5x11	1.699	5.096	0.08	5x11	1.699	5.096	0.08
10	100	5x11	1.331	3.992	0.11	5x11	1.331	3.992	0.11
22	220	5x11	0.726	2.177	0.16	6.3x11	0.726	1.814	0.19
33	330	6.3x11	0.564	1.411	0.23	6.3x15	0.564	1.411	0.26
47	470	6.3x11	0.453	1.132	0.27	8x11.5	0.453	1.132	0.32
68	680	8x11.5	0.352	0.880	0.38	10x12.5	0.264	0.660	0.40
100	101	8x20	0.220	0.549	0.59	10x16	0.220	0.549	0.54
220	221	10x16	0.113	0.283	0.80	10x25	0.113	0.283	0.98
330	331	10x20	0.091	0.227	1.08	12.5x20	0.091	0.227	1.16
470	471	12.5x20	0.074	0.186	1.38	12.5x25	0.074	0.186	1.52
680	681	12.5x25	0.059	0.147	1.83	16x25	0.059	0.117	1.84
1000	102	16x25	0.048	0.096	2.23	16x35.5	0.048	0.096	2.61
1200	122	16x31.5	0.042	0.083	2.71	18x35.5	0.042	0.083	2.87
1500	152	16x35.5	0.035	0.071	3.01	18x40	0.035	0.071	3.39
2200	222	18x35.5	0.027	0.055	3.69				
3300	332	18x40	0.023	0.046	4.35				