

RADIAL TYPE

TL Series

Long Life, Low Impedance, High Reliability

JAMICON®

TH ← TL → TX

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

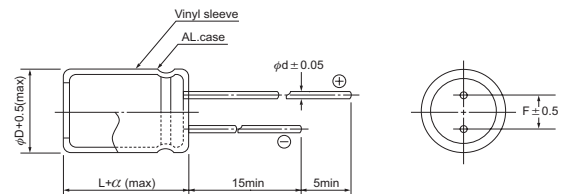


● SPECIFICATION

Item	Characteristic							
Operation Temperature Range	-55 ~ +105°C							
Rated Working Voltage	6.3 ~ 50VDC							
Capacitance Tolerance (120Hz 20°C)	±20%(M)							
Leakage Current (20°C)	$I \leq 0.01CV$ or $3 (\mu A)$				I : Leakage Current (μA)			
	Whichever is greater after 2 minutes				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)	Add 0.02 per 1000 μF for more than 1000 μF							
	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	16~35	50			
	-25°C / +20°C	2	2	2	2			
	-55°C / +20°C	3	3	3	2			
Load Life	After hours ($\phi 5 \sim 6.3$ mm 2000 hours, $\phi 8$ mm 3000 hours, $\phi D \geq 10$ mm 5000 hours) application of W.V. at +105°C, the capacitor shall meet the following limits.							
	Capacitance Change	$\leq \pm 20\%$ of initial value						
	Dissipation Factor	$\leq 200\%$ of initial specified value						
	Leakage current	\leq 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	$\leq \pm 20\%$ of initial value						
	Dissipation Factor	$\leq 150\%$ of initial specified value						
	Leakage current	$\leq 200\%$ 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

V(Code)		6.3 (0J)				10 (1A)				
μF	Code	Item	DxL	IMP.		R.C.	DxL	IMP.		R.C.
				20°C	-10°C			20°C	-10°C	
100	101					5x11	0.500	1.250	0.21	
220	221		6.3x11	0.308	0.769	0.34	6.3x11	0.249	0.623	0.35
330	331		6.3x11	0.246	0.615	0.42	8x11.5	0.169	0.423	0.51
470	471		8x11.5	0.178	0.446	0.58	8x11.5	0.139	0.346	0.60
680	681		10x12.5	0.081	0.203	0.74	10x12.5	0.077	0.194	0.76
1000	102		8x20	0.066	0.166	1.08	10x16	0.063	0.158	1.03
1200	122		10x16	0.058	0.144	1.09	10x20	0.055	0.137	1.24
1500	152		10x20	0.049	0.123	1.30	10x25	0.047	0.116	1.48
2200	222		10x25	0.038	0.094	1.68	12.5x20	0.036	0.090	1.67
3300	332		12.5x20	0.032	0.079	1.87	12.5x25	0.030	0.075	2.12
4700	472		12.5x30	0.027	0.067	2.47	16x25	0.025	0.051	2.35
6800	682		16x25	0.024	0.048	2.53	16x31.5	0.023	0.045	2.85
10000	103		16x31.5	0.022	0.043	3.00	18x35.5	0.021	0.041	3.43
15000	153		18x35.5	0.020	0.041	3.61	18x40	0.019	0.039	3.85

V(Code)		16 (1C)				25 (1E)				
μF	Code	Item	DxL	IMP.		R.C.	DxL	IMP.		R.C.
				20°C	-10°C			20°C	-10°C	
47	470		5x11	0.568	1.421	0.15	5x11	0.539	1.348	0.19
68	680		5x11	0.500	1.250	0.18	6.3x11	0.419	1.049	0.26
100	101		6.3x11	0.367	0.918	0.25	6.3x11	0.349	0.871	0.31
220	221		8x11.5	0.190	0.474	0.43	8x11.5	0.180	0.450	0.54
330	331		10x12.5	0.114	0.285	0.55	10x12.5	0.108	0.270	0.70
470	471		10x12.5	0.093	0.233	0.66	10x16	0.088	0.221	0.92
680	681		10x16	0.074	0.184	0.88	10x20	0.070	0.175	1.22
1000	102		10x20	0.060	0.150	1.18	12.5x20	0.057	0.143	1.58
1200	122		10x25	0.052	0.130	1.43	12.5x20	0.050	0.124	1.73
1500	152		12.5x20	0.044	0.111	1.48	12.5x25	0.042	0.105	2.04
2200	222		12.5x25	0.034	0.086	1.91	16x25	0.032	0.065	2.39
3300	332		16x25	0.029	0.057	2.20	16x31.5	0.027	0.054	3.02
4700	472		16x31.5	0.024	0.048	2.67	18x35.5	0.023	0.046	3.70
6800	682		18x35.5	0.022	0.043	3.28				
10000	103		18x40	0.019	0.039	3.67				

V(Code)		35 (1V)				50 (1H)				
μF	Code	Item	DxL	IMP.		R.C.	DxL	IMP.		R.C.
				20°C	-10°C			20°C	-10°C	
4.7	4R7		5x11	1.912	4.781	0.07	5x11	1.699	5.096	0.08
10	100		5x11	1.498	3.745	0.10	5x11	1.331	3.992	0.11
22	220		5x11	0.817	2.043	0.14	5x11	0.726	2.177	0.16
33	330		5x11	0.636	1.589	0.17	6.3x11	0.564	1.411	0.23
47	470		6.3x11	0.510	1.275	0.24	6.3x11	0.453	1.132	0.27
68	680		6.3x11	0.397	0.991	0.28	8x11.5	0.352	0.880	0.38
100	101		8x11.5	0.330	0.824	0.40	8x20	0.220	0.549	0.59
220	221		10x12.5	0.128	0.319	0.63	10x16	0.113	0.283	0.80
330	331		10x16	0.102	0.255	0.85	10x20	0.091	0.227	1.08
470	471		10x20	0.084	0.209	1.12	12.5x20	0.074	0.186	1.38
680	681		12.5x20	0.066	0.165	1.44	12.5x25	0.059	0.147	1.83
1000	102		12.5x25	0.054	0.135	1.93	16x25	0.048	0.096	2.23
1200	122		12.5x30	0.047	0.117	2.29	16x31.5	0.042	0.083	2.71
1500	152		16x25	0.040	0.079	2.25	16x35.5	0.035	0.071	3.01
2200	222		16x31.5	0.031	0.077	2.88	18x35.5	0.027	0.055	3.69
3300	332		18x35.5	0.026	0.064	3.65	18x40	0.023	0.046	4.35