

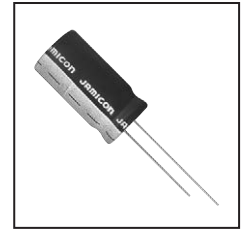
# RADIAL TYPE

**TL** Series

Long Life, Low Impedance, High Reliability

**JAMICON**®

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

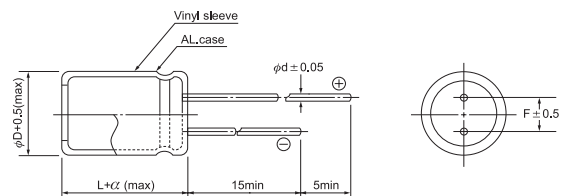


## ● SPECIFICATION

Item	Characteristic							
Operation Temperature Range	-40 ~ +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
	-40°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. and +105°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage ≤ rated working voltage)							
	Capacitance Change	≤ ±25% 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	≤ 200% of initial specified value						
	Leakage current	≤ 200% of initial specified value						

## ● DIMENSIONS (mm)

φD	5	6.3	8	10	12.5	16
F	2.0	2.5	3.5	5.0	5.0	7.5
d	0.5	0.5	0.6	0.6	0.6	0.8
α	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
50~63V	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 20°C 100kHz  
 Max ripple current : A(rms) 105°C 100kHz

V(Code) φD Code		6.3 (0J)			10 (1A)			16 (1C)		
		DxL	IMP.	R.C.	DxL	IMP.	R.C.	DxL	IMP.	R.C.
10	100							5x11	1.300	0.09
56	560							5x11	0.300	0.25
100	101	5x11	0.300	0.25	5x11	0.300	0.25	6.3x11	0.250	0.36
120	121	6.3x11	0.280	0.26	6.3x11	0.280	0.26	6.3x11	0.130	0.41
220	221	6.3x11	0.130	0.41	6.3x11	0.130	0.41	8x11.5	0.120	0.58
330	331	8x11.5	0.110	0.54	8x11.5	0.110	0.54	8x11.5	0.072	0.76
470	471	8x11.5	0.072	0.76	8x11.5	0.072	0.76	8x15	0.056	1.00
								10x12.5	0.053	1.03
680	681	8x15	0.056	1.00	8x15	0.056	1.00	8x20	0.041	1.25
		10x12.5	0.053	1.03	10x12.5	0.053	1.03	10x16	0.038	1.43
820	821	8x20	0.050	1.05	8x20	0.050	1.05	10x20	0.036	1.45
1000	102	8x20	0.041	1.25	8x20	0.041	1.25	10x20	0.023	1.82
		10x16	0.038	1.43	10x16	0.038	1.43			
1200	122	10x20	0.023	1.82	10x20	0.023	1.82	10x25	0.022	2.15
1500	152	10x25	0.022	2.15	10x25	0.022	2.15	12.5x20	0.021	2.36
2200	222	12.5x20	0.021	2.36	12.5x20	0.021	2.36	12.5x25	0.018	2.77
3300	332	12.5x25	0.018	2.77	12.5x25	0.018	2.77	12.5x35	0.015	3.40
3900	392	12.5x30	0.016	3.29	12.5x30	0.016	3.29	16x25	0.016	3.46
		16x20	0.018	3.14	16x20	0.018	3.14			
4700	472	12.5x35	0.015	3.40	12.5x35	0.015	3.40			
5600	562	16x25	0.016	3.46	16x25	0.016	3.46			

V(Code) φD Code		25 (1E)			35 (1V)		
		DxL	IMP.	R.C.	DxL	IMP.	R.C.
10	100	5x11	1.030	0.13	5x11	0.800	0.17
33	330	5x11	0.500	0.21	5x11	0.300	0.25
47	470	5x11	0.300	0.25	6.3x11	0.280	0.27
56	560	5x11	0.280	0.26	6.3x11	0.130	0.41
100	101	6.3x11	0.130	0.41	8x11.5	0.125	0.50
120	121	6.3x15	0.130	0.49	8x11.5	0.120	0.59
150	151	8x11.5	0.110	0.54	8x11.5	0.072	0.76
220	221	8x11.5	0.072	0.76	8x15	0.056	1.00
					10x12.5	0.053	1.03
330	331	8x15	0.056	1.00	10x16	0.038	1.43
		10x12.5	0.053	1.03			
470	471	8x20	0.041	1.25	10x20	0.023	1.82
		10x16	0.038	1.43			
560	561	10x20	0.036	1.50	10x25	0.022	2.15
680	681	10x20	0.023	1.82	12.5x20	0.021	2.36
820	821	10x25	0.022	2.15	12.5x20	0.020	2.45
1000	102	12.5x20	0.021	2.36	12.5x25	0.018	2.77
1200	122	12.5x20	0.019	2.46	12.5x30	0.016	3.29
					16x20	0.018	3.14
1500	152	12.5x25	0.018	2.77	12.5x35	0.015	3.40
1800	182	12.5x30	0.016	3.29	16x25	0.016	3.46
		16x20	0.018	3.14			
2200	222	12.5x35	0.015	3.40			

V(Code) φD Code		50 (1H)			63 (1J)		
		DxL	IMP.	R.C.	DxL	IMP.	R.C.
22	220	5x11	0.340	0.24	6.3x11	0.726	0.22
33	330	6.3x11	0.320	0.28	6.3x15	0.564	0.30
47	470	6.3x11	0.310	0.34	8x11.5	0.453	0.38
56	560	6.3x11	0.140	0.39	8x11.5	0.404	0.42
100	101	8x11.5	0.074	0.72	10x16	0.264	0.54
120	121	8x15	0.061	0.95	10x16	0.220	0.73
150	151	10x12.5	0.061	0.98	10x16	0.187	0.80
180	181	8x20	0.046	1.19	10x20	0.153	0.90
220	221	10x16	0.042	1.37	10x25	0.133	1.08
330	331	10x25	0.028	1.87	12.5x20	0.113	1.33
470	471	12.5x20	0.027	2.05	12.5x25	0.091	1.66
560	561	12.5x25	0.023	2.41	16x25	0.074	2.19
680	681	12.5x30	0.021	2.86	16x25	0.059	2.24
820	821	12.5x35	0.019	2.96	16x31.5	0.054	2.72
		16x20	0.023	2.73			
1000	102	16x25	0.021	3.01	16x35.5	0.048	3.17