YLC series
+105℃,Low Leakage（低漏电品）

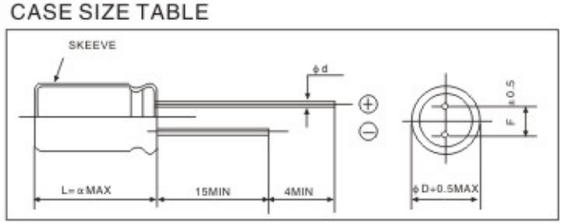
FEATURES

- Extremely low and stable leakage current characteristics.
- Close capacitance tolerance ±20%(±10%)

SPECIFICATIONS

Items	Characteristics
Category Temperature Rance	-40～+105℃
Rated Voltage Range	6.3～100V.DC
Nominal Capacitance Rance	0.1～6800μF
Capacitance Tolerance	±20%（120Hz,+20℃）
Leakage Current(MAX)	I=0.05CV or 1.5(uA) after 2 minutes whichever is greater measured with rated working voltage at 20℃
Dissipation Factor(MAX) Tan δ（20℃, 120Hz）	Rated Voltage(V): 6.3 / 10 / 16 / 25 / 35 / 50 / 63 / 100 Tan δ: 0.28 / 0.24 / 0.20 / 0.16 / 0.14 / 0.12 / 0.10 / 0.08 When nominal capacitance is over 1000 μF,tan δ shall be added 0.02 to the listed value with Increase of every 1000 μF
Load Life	After applying rated voltage with max ripple current for 2000 hrs at 105℃, the capacitors shall meet the following requirements Capacitance Change: Within ±20% of the initial value Dissipation Factor: Not more than 200% of the specified value Leakage Current: Not more than the specified value
Shelf Life	After Leaving capacitors under no load at 85℃ for 1000hrs,they meet the characteristic requirements listed at right Capacitance change: Within ±20% of the initial value Tan δ: ≤200% of initial specified value Leakage current: ≤ 200% of initial specified value
Low Temperature Stability Impedance Rate（MAX）	Rated Voltage(V): 6.3 / 10 / 16 / 25 / 35 / 50 / 63 / 100 Z-25℃/Z+20℃: 5 / 4 / 3 / 2 / 2 / 2 / 2 / 2 Z-40℃/Z+20℃: 10 / 8 / 6 / 4 / 3 / 3 / 3 / 3
Other	JISC-5141 EIAJ RC-2372

CASE SIZE TABLE



φD	5	6.3	8	10	13	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
φd	0.5			0.6		0.8	
α	L≤16: α=1.5 L≥20: α=2.0						

RIPPLE CURRENT MULTIPLIER

Cap(μF)	Frequency(Hz)				
	50	120	300	1K	10K～
≤47	0.75	1.00	1.35	1.57	2.00
56～470	0.80	1.00	1.23	1.34	1.50
≥560	0.85	1.00	1.10	1.13	1.15

STANDARD RATINGS

Cap(μF)	Code	6.3V OJ		10V 1A		16V 1C		25V 1E	
4.7	475							5x11	45
10	106					5x11	55	5x11	70
22	226					5x11	85	5x11	100
33	336					5x11	100	5x11	105
47	476			5x11	110	5x11	115	5x11	120
100	107	5x11	148	5x11	130	6.3x11	150	6.3x11	165
220	227	6.3x11	245	6.3x11	207	8x12	270	8x12	288
330	337	6.3x11	300	8x12	297	8x12	324	8x14	345
470	477	8x12	324	8x12	351	8x14	386	10x13	425
680	687	8x12	389	8x14	395	10x16	486	10x20	576
1000	108	10x13	513	10x16	567	10x20	710	13x21	855
2200	228	10x20	765	10x20	790	13x21	920	13x25	985
3300	338	13x21	1025	13x21	1165	13x25	1270	16x30	1460
4700	478	13x21	1140	13x25	1280	16x30	1570		
6800	688	13x25	1420	16x25	1450				

Maximum Allowable Ripple Current(mA rms)at 85℃ 120Hz

STANDARD RATINGS

Cap(μF)	Code	35V 1V		50V 1H		63V 1J		100V 2A	
0.1	104			5x11	1.1				
0.22	224			5x11	2.3				
0.33	334			5x11	3.5				
0.47	474			5x11	5.0				
0.68	684			5x11	7.3				
1.0	105			5x11	10.7			5x11	19
2.2	225			5x11	23			5x11	28
3.3	335			5x11	40			5x11	45
4.7	475	5x11	45	5x11	45			5x11	50
10	106	5x11	70	5x11	70	5x11	83	6.3x11	67
22	226	5x11	105	5x11	105	6.3x11	115	8x12	117
33	336	5x11	110	6.3x11	113	6.3x11	140	8x14	130
47	476	6.3x11	126	6.3x11	135	8x12	171	10x13	185
100	107	8x12	207	8x12	225	10x13	236	10x20	370
220	227	8x14	356	10x16	396	10x20	420	13x25	510
330	337	10x13	410	10x20	597	10x20	615	16x25	670
470	477	10x20	576	13x21	684	13x21	792	16x30	780
680	687	13x21	684	13x21	765	13x25	865		
1000	108	13x21	945	16x25	1210	16x25	1025		
2200	228	16x30	1360						

Maximum Allowable Ripple Current(mA rms)at 85℃ 120Hz