

LL Series

+105℃, Low Leakage(低漏电品)

♦ FEATURES

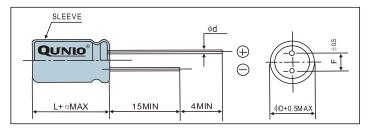
- Extremely low and stable leakage current characteristics.
- Close capacitance tolerance ±20%(±10%)

♦ SPECIFICATIONS



Items	Characteristics									
Category Temperature Range	-40~+105℃									
Rated Voltage Range	6.3~100V,DC									
Nominal Capacitance Range	0.1~6800 μ F									
Capacitance Tolerance			±2	20%(120Hz	z,+20℃)					
Leakage Current(MAX)	after 2 minu	utes whiche		0.002CV or ater measu		ted workin	g voltage a	at 20℃		
	Rated Voltage(V)	6.3	10	16	25	35	50	63	100	
Dissipation Factor(MAX) Tan δ (+20℃,120Hz)	Tan δ	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	
1411 * (120 0, 120112)	When nominal capacitance is over 1000 μ F, tan δ shall be added 0.02 to the listed value with Increase of every 1000 μ F									
	After applying rated voltage with max ripple current for 1000hrs at 105 $^\circ$ C, the capacitors shall meet the following requirements									
Load Life	Capacitance Char		Within $\pm 20\%$ of the initial value							
Eddd Ellid	Dissipation Factor		Not more than 200% of the specified value							
	Leakage Curren	Leakage Current Not more than the specified value								
Shelf Life	After leaving capacitors un load at 85℃ for 1000hrs,th the characteristic requirem at right		Tan δ ≤ 200% of ir			% of initial	of the initial value itial specified value itial specified value			
	Rated Voltage(V)	6.3	10	16	25	35	50	63	100	
Low Temperature Stability Impedance Rate(MAX)	Z-25℃/Z+20℃	5	4	3	2	2	2	2	2	
	Z-40°C/Z+20°C	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							

♦ RIPPLE CURRENT MULTIPLIER

Cap(μF)	Frequency(Hz)								
	50	120	300	1K	10K~				
≪47	0.75	1.0	1.35	1.57	2.0				
56~4700	0.8	1.0	1.23	1.34	1.5				
≥5600	0.85	1.0	1.10	1.13	1.15				



LL Series

♦ STANDARD RATINGS

size: ⊕D×L(mm)

	Voltage	6.3V		10	10V 16		SV .	25V	
Cap(µF)	Code	0J		1.	A	1C		1E	
4.7	4R7							5×11	45
10	100					5×11	55	5×11	70
22	220					5×11	85	5×11	100
33	330					5×11	100	5×11	105
47	470			5×11	110	5×11	115	5×11	120
100	101			5×11	130	6.3×11	150	6.3×11	165
220	221			6.3×11	207	8×12	270	8×12	288
330	331			8×12	297	8×12	324	8×14	345
470	471	8×12	324	8×12	351	8×14	386	10×13	435
680	681	8×12	389	8×14	395	10×16	486	10×20	576
1000	102	10×13	513	10×16	567	10×20	710	13×21	855
2200	222	10×20	765	10×20	790	13×21	920	13×25	985
3300	332	13×21	1025	13×21	1165	13×25	1270	16×30	1460
4700	472	13×21	1140	13×25	1280	16×30	1570		
6800	682	13×25	1420	16×25	1450				

Maximum Allowable Ripple Current(mA rms) at $105\,^{\circ}$ C 120Hz

♦ STANDARD RATINGS

Voltage 35V		5V	50V		63V		100V			
Cap(µF)	Code	1	V	1	Н	1J		2.	2A	
0.1	0R1			5×11	1.1					
0.22	R22			5×11	2.3					
0.33	R33			5×11	3.5					
0.47	R47			5×11	5.0					
0.68	R68			5×11	7.3					
1.0	010			5×11	10.7			5×11	19	
2.2	2R2			5×11	23			5×11	28	
3.3	3R3			5×11	40			5×11	45	
4.7	4R7	5×11	45	5×11	45			5×11	50	
10	100	5×11	70	5×11	70	5×11	83	6.3×11	67	
22	220	5×11	105	5×11	105	6.3×11	115	8×12	117	
33	330	5×11	110	6.3×11	113	6.3×11	140	8×14	130	
47	470	6.3×11	126	6.3×11	135	8×12	171	10×13	185	
100	101	8×12	107	8×12	225	10×13	236	10×20	370	
220	221	8×14	356	10×16	396	10×20	420	13×25	510	
330	331	10×13	410	10×20	597	10×20	615	16×25	670	
470	471	10×20	576	13×21	684	13×21	792	16×30	780	
680	681	13×21	684	13×21	765	13×21	865			
1000	102	13×21	945	16×25	1210	16×25	1025			
2200	222	16×30	1360							