

RL series Super Long Life 105°C 12000~20000 hours

FEATURES

- Load Life :105°C 12000~20000 hours
- Most suitable for LED lighting power supply circuit
- ROHS compliant

SPECIFICATIONS

Item	Performance Characteristics													
Operating Temperature Range	-40°C~105°C			-25°C~105°C										
Rated Voltage Range	160~400V.DC			450V.DC										
Capacitance Range	1~68uF													
Capacitance Tolerance	±20%,120Hz,20°C													
Leakage Current (MAX)	CV≤1000		CV > 1000		I=Leakage Current(uA) C=Nominal Capacitance(uF) V=Rated Voltage(V)									
	I=0.1CV+40uA (1minutes) I=0.03CV+15uA (5minutes)		I=0.04CV+100uA (1minutes) I=0.02CV+25uA (5minutes)											
Dissipation Factor (tan δ)	Rated voltage(V)	160	200	250	400	MAX (20°C120Hz)								
	Tan δ	0.24												
Low Temperature Stability Impedance Ratio	Rated voltage(V)	160	200	250	400	(120Hz)								
	Z(-25°C) / Z (+20°C)	3	3	3	6		6							
	Z(-40°C) / Z (+20°C)	8	8	8	10		10							
Endurance	After life test with rated ripple current at conditions stated in the table below at 105°C,the capacitors shall meet the following requirements													
	Leakage Current	Not more than the specified value				<table border="1"> <thead> <tr> <th>Case Size</th> <th>Life Time(hours)</th> </tr> </thead> <tbody> <tr> <td>6.3×11, 8×11</td> <td>12000</td> </tr> <tr> <td>8×12, 10×13</td> <td>15000</td> </tr> <tr> <td>10×16, ΦD≥13</td> <td>20000</td> </tr> </tbody> </table>	Case Size	Life Time(hours)	6.3×11, 8×11	12000	8×12, 10×13	15000	10×16, ΦD≥13	20000
	Case Size	Life Time(hours)												
	6.3×11, 8×11	12000												
8×12, 10×13	15000													
10×16, ΦD≥13	20000													
Capacitance Change	Within ±30% of initial value													
Dissipation Factor	Not more than 300% of the specified value													
Shelf Life	After leaving capacitors under no load at 105°C for 1000hours and applying voltage according to JIS C-5102 4-3,they meet the specified value for load life characteristics listed above.													
Standard	According to JIS C-5141													

MULTIPLIER FOR RIPPLE CURRENT

160~400V.DC

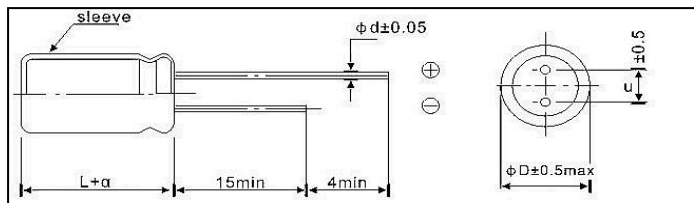
Frequency(Hz)		120	1K	10K	100K≤
Coefficient	1~5.6uF	0.5	0.6	0.8	1.0
	6.8~18uF	0.5	0.8	0.9	1.0
	22~33uF	0.6	0.7	0.9	1.0

450V.DC

Frequency(Hz)		120	1K	10K	100K≤
Coefficient	4.7~15uF	0.3	0.6	0.9	1.0
	22~68uF	0.4	0.7	0.9	1.0

RL series Super Long Life 105°C 12000~ 20000 hours

■DIMENSIONS(mm)



ΦD	6.3	8	10	13	16	18
Φd	0.5		0.6		0.8	
F	2.5	3.5	5.0		7.5	
α	L \leq 16 : α =1.5			L \geq 16 : α =2.0		

■STANDARD SIZE PERMISSIBLE RIPPLE CURRENT

Size $\Phi D \times L$ (mm) Ripple Current(mA 105°C, 100KHz)r.m.s

W. V Cap (μF)	160		200		250		400		450	
	SIZE	Ripple	SIZE	Ripple	SIZE	Ripple	SIZE	Ripple	SIZE	Ripple
1.0							6.3×12	48		
1.2							8×11	56		
1.5							8×11	60		
1.8					6.3×12	66	8×11	66		
2.2			6.3×12	72	6.3×12	72	8×11 8×12	72 80		
2.7							8×12	86		
3.3			6.3×12	84	6.3×12	84	8×12 10×13	94 96		
3.9							10×13	114		
4.7			6.3×12	98	8×11	106	10×13	122	10×16 10×20	180 220
5.6	6.3×12	104	8×11	112	8×12	124				
6.8			8×11	117	8×12	129	10×16	161	10×20	280
8.2			8×11	125	10×13	144			10×20	280
10	8×11	133	8×12	152	10×13	171			13×21	450
12			10×13	167	10×13	184				
15	8×12	174							13×25	600
18			10×13	214	10×16	241				
22									13×25 16×21	600 730
27			10×16	268						
33									16×25 18×21	980 780
47									18×25	1200
68									18×32	1300