

RL series

Features

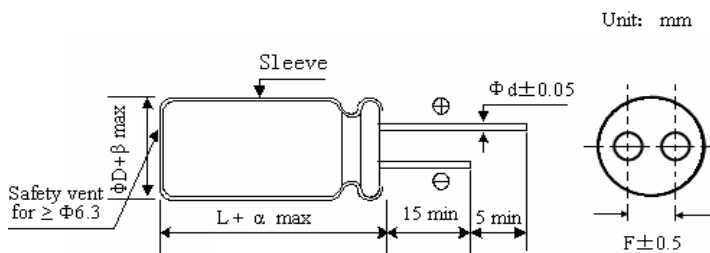
- ◆ High ripple current , Long life 8000 hours at 105°C .
- ◆ Especially designed for LED driver , LED lighting .
- ◆ RoHS Compliant .



Specifications

Item	Performance Characteristics							
Temperature Range	-40~+105°C (160~400Vdc) -25~+105°C (450~500Vdc)							
Rated Voltage Range	160~500Vdc							
Capacitance Range	1.5~150µF							
Capacitance Tolerance	±20% (120Hz, +20°C)							
Leakage Current (+20°C,max.)	I≤0.02CV+30 (µA) After 2 minutes, whichever is greater measured with rated working voltage applied							
Dissipation Factor(tgδ) 120Hz, +20°C	Working Voltage(Vdc)	160	200	250	350	400	450	500
	D.F.(%)max.	15	15	15	15	20	20	24
For capacitance>1000µF, Add 2% per another 1000µF (120Hz, +20°C)								
Low Temperature Characteristics(120Hz)	Impedance ratio max.							
	Working Voltage(Vdc)	160	200	250	350	400	450	500
	Z-25°C/ Z+20°C	3	3	3	5	5	6	6
Z-40°C/ Z+20°C	6	6	6	6	6	-	-	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 8000 hours at 105°C							
	Capacitance Change	≤±20% of the initial value						
	D.F.(tgδ)	≤200% of the initial specified value						
	Leakage Current	≤The initial specified value						
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C.							
	Capacitance change	≤±20% of the initial value						
	D.F.(tgδ)	≤200% of the initial specified value						
	Leakage Current	≤200% The initial specified value						
Others	JISC-5101(IEC 60384)							

Diagram of Dimensions



Frequency Multipliers

WV \ Hz	120	1K	10K	100K
160~500	0.50	0.80	0.90	1.00

ΦD	5	6.3	8	10	13	16	18	22
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0
Φd	0.5	0.5	0.5	0.6	0.6	0.8	0.8	0.8
α	(L< 20) + 1.5				(L≥20) + 2.0			
β	(D< 20) + 0.5				(D≥20) + 1.0			

RL series**Standard Ratings**

Voltage	160		200		250	
Cap(μ F)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
4.7	8×12	100	8×12	100	8×12	103
5.6	8×12	108	8×12	108	8×12	126
6.8	8×16	115	8×16	115	8×16	140
8.2	8×16	189	8×16	189	8×16	160
10	8×16	226	8×16	226	10×16	240
15	10×16	310	10×16	310	10×20	324
22	10×20	384	10×20	384	13×20	428
33	10×20	472	13×20	520	13×20	570
47	13×20	624	13×20	624	13×25	680
68	13×25	820	13×25	820	16×25	904
100	16×25	1096	16×25	1096	16×30	1180
150	16×30	1448	16×30	1448	18×30	1500

Voltage	350		400		450	
Cap(μ F)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
1.5					8×12	74
2.2			8×12	90	8×16	88
3.3	8×12	102	8×16	108	8×16	99
4.7	8×16	118	8×16	130	10×16	110
5.6	8×16	135	10×16	170	10×16	150
6.8	10×16	162	10×16	200	10×20	180
8.2	10×16	206	10×20	230	10×20	215
10	10×20	252	10×20	252	13×20	230
15	10×20	308	13×20	380	13×25	340
22	13×20	414	13×25	450	16×20	420
33	16×20	568	16×20	590	16×25	580
47	16×25	728	16×25	756	18×25	720
68	16×30	944	16×30	944	18×30	900
82			18×30	1109		
100	18×30	1180	18×30	1220	18×40	1180

Voltage	500	
Cap(μ F)	Case Size	Ripple Current
10	13×20	240
15	13×25	300
22	16×25	380
33	18×25	520
47	18×30	720
68	22×30	1000

Max Allowable Ripple Current (mA,rms) at 105°C 100KHz,Case Size Φ D×L(mm).

Above size is the standard size for our product. If you need special size please contact our sales offices.