

## LR SERIES

高頻低 Z 低 ESR 品 LOW IMPEDANCE AND LOW ESR

具耐紋波電流,低 ESR 及高壽命之特性。

Has a high ripple current, low ESR and long life characteristics.

適用於轉換式電源供應器之輸出迴路。

Ideal application for output switching power supplies.

### Electrical Characteristics 電器特性

Working Voltage : 6.3 100VDC

額定電壓

Operating Temperature : -55 +105

溫度範圍

Capacitance Tolerance(120 Hz, 25 ) : -20 +20%(M)

靜電容量容許差

DC Leakage Current (  $\mu$  A ) :  $I \leq 0.002CV$  (  $\mu$  A ) or  $3 \mu$  A

洩漏電流 (After 3 minutes Application of DC Working Voltage at 25 )

Surge Voltage 湧浪電壓 : at 25

WV : 6.3 10 16 25 35 50 63 100

S.V. : 8 13 20 32 44 63 79 125

Dissipation Factor 散逸因素 : at 120Hz, 25

WV : 6.3 10 16 25 35 50 63 100

DF% : 17 12 10 9 8 7 6 6

For capacitance exceeding 1000  $\mu$  F. The value of DF(%) is increased by 2% for every addition of 1000  $\mu$  F.

Load Life 高溫負荷特性 : 1000 Hours at 105

Capacitance Change: Within 20% of Initial Value

Dissipation Factor: Not Exceed 200% of Initial Requirement

Leakage Current: Not Exceed The Initial Requirement

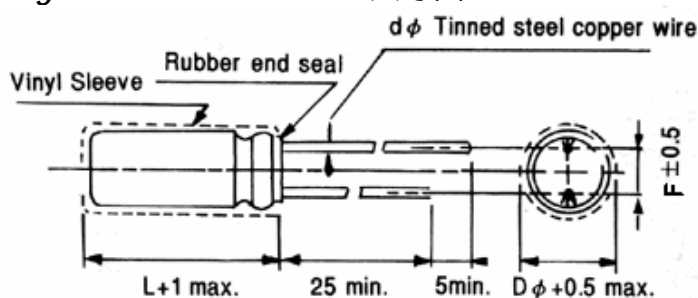
Shelf Life 放置特性 : 500Hours , No Voltage Applied

Capacitance Change: Within 20% of Initial Value

Dissipation Factor: Not Exceed 200% of Initial Requirement

Leakage Current: Not Exceed 200% of Initial Requirement

### Diagram Of Dimensions 尺寸圖



D	5	6	8	10	13	16
F	2.0	2.5	3.5	5.0	7.5	
d	0.5		0.6		0.8	

### Case Size

CAP(μF)	RATED VOLTAGE VV							
	6.3(8)	10(13)	16(20)	25(32)	35(44)	50(63)	63(79)	100(125)
	DxL	DxL	DxL	DxL	DxL	DxL	DxL	DxL
4.7						5x11	5x11	5x11
6.8						5x11	5x11	5x11
10					5x11	5x11	5x11	6x11
22					5x11	5x11	6x11	8x11
33					5x11	6x11	6x11	8x14
47				5x11	6x11	6x11	8x11	10x15
68			5x11	6x11	6x11	8x11	8x11	10x20
100		5x11	5x11	6x11	8x11	8x11	10x15	13x21
120		5x11	6x11	8x11	8x11	10x12	10x15	13x21
150	5x11	6x11	6x11	8x11	8x11	10x15	10x17	13x26
220	6x11	6x11	6x11	8x11	8x12	10x17	10x20	16x26
330	8x11	8x11	8x11	8x11	10x17	10x20	13x21	16x32
470	8x11	8x11	8x11	8x14	10x17	13x21	13x21	16x32
680	8x14	8x14	10x17	10x20	13x21	13x26	16x26	
1000	8x12 8x14	8x14	10x17	10x20	13x21	13x26 16x26	16x32	
1200	8x14 10x15	10x15	10x20	13x21	13x26			
1500	8x16 10x15	10x20	13x21	13x26	16x26			
2200	10x17	10x20	13x21	13x26	16x26			
3300	13x21							
4700	13x26							

Case Size: DxL in mm

### Ripple Current & Impedance

CAP(μF)	RATED VOLTAGE WV															
	6.3(8)		10(13)		16(20)		25(32)		35(44)		50(63)		63(79)		100(125)	
	R.C.	IMP.	R.C.	IMP.	R.C.	IMP.	R.C.	IMP.	R.C.	IMP.	R.C.	IMP.	R.C.	IMP.	R.C.	IMP.
4.7											90	2.0	100	2.2	115	2.0
6.8											100	1.85	110	2.0	130	1.85
10									110	0.9	110	1.7	120	1.85	170	1.5
22									120	0.69	120	0.7	150	1.2	200	0.79
33									130	0.42	180	0.6	230	0.9	370	0.59
47							150	0.42	180	0.37	190	0.52	300	0.7	450	0.35
68					150	0.42	200	0.37	250	0.22	300	0.35	450	0.52	550	0.24
100			150	0.42	180	0.37	230	0.22	280	0.14	400	0.25	550	0.35	650	0.18
120			180	0.37	200	0.32	270	0.2	350	0.13	430	0.21	600	0.26	780	0.15
150	180	0.42	230	0.32	250	0.22	300	0.14	420	0.1	480	0.18	620	0.2	850	0.11
220	230	0.32	280	0.22	280	0.14	410	0.12	520	0.085	580	0.1	680	0.15	900	0.071
330	280	0.18	280	0.14	410	0.1	510	0.069	610	0.044	700	0.072	820	0.1	1200	0.049
470	280	0.14	410	0.1	560	0.09	710	0.064	820	0.039	950	0.06	1050	0.064	1400	0.038
680	350	0.1	580	0.090	730	0.064	890	0.039	1030	0.038	1260	0.05	1420	0.052		
1000	560	0.085	710	0.065	950	0.039	1150	0.038	1200	0.029	1460	0.039	1600	0.042		
1200	640	0.067	800	0.044	1050	0.038	1300	0.029	1650	0.028						
1500	760	0.055	950	0.039	1150	0.034	1460	0.028	1780	0.024						
2200	950	0.043	1150	0.038	1460	0.028	1650	0.024	2000	0.021						
3300	1150	0.040														
4700	1460	0.031														

Ripple Current : mA rms at 105 100KHz

Impedance : Ohm at 25 100KHz