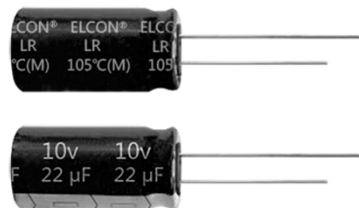


## LR

### Series

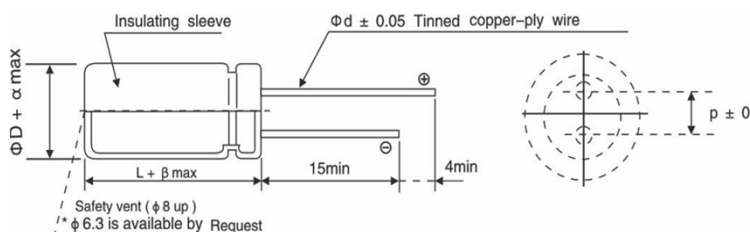
- Load life of 2000 hours at 105°C
- Extended temperature range -40~+105°C
- LR series aluminum electrolytic capacitors are small sized high reliability, low impedance capacitors
- High ripple current, low impedance



## SPECIFICATIONS

Item	Characteristics								
Category Temperature Range	-40 ~ +105℃								
Voltage Range	6.3 ~ 100V.DC								
Nominal Cap. Range	0.1 ~ 15000μF								
Capacitance Tolerance	± 20 % (at 120Hz , 20℃)								
Leakage Current	I=0.01CV or 3 μA ,whichever is greater (After 2 minutes). where, I: max.leakage current(μA), C:Nominal capacitance(μF), V:Rated voltage (V) (at 20℃)								
Dissipation Factor (MAX) (tanδ) (at 120Hz ,20℃)	WV	6.3	10	16	25	35	50	63	100
	tanδ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08
	When nominal capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.								
Low Temp.Impedance Stability at 120Hz	WV		6.3	10	16~25	35~100			
	Z-25℃ / Z+20℃		4	3	2	2			
	Z-40℃ / Z+20℃		8	6	4	3			
Endurance	After 2000 hours application of DC rated working voltage at 105℃, the capacitor shall meet the following minims.								
	Capacitance change			≤ ±20% of the initial value					
	Dissipation Factor			≤200% of the initial specified value					
	Leakage Current			≤ the initial specified value					
Shelf Life	After storage for 1000 hours at 105℃ with no voltage applied, voltage treatment of JIS-C-5102 article 4-4 is to be given and then measurement shall be made, at which time requirement specified in the table "High Temperature Loading" can be met.								

## DRAWING



Unit: (mm)

ΦD	5	6.3	8	10	13	16	18	20	22
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0	10.0
Φd	0.5			0.6		0.8			
β	1.0			1.5				2.0	
α	0.5								

## MULTIPLIER FOR RIPPLE CURRENT

### (1) Frequency Coefficient

Freq.(Hz)	60(50)	120	1K	10K	100K
Cap.(μF)					
0.1~33	0.45	0.55	0.75	0.90	1.00
47~470	0.60	0.70	0.85	0.93	1.00
680~3300	0.65	0.75	0.90	0.95	1.00
4700~15000	0.75	0.80	0.92	0.97	1.00

### (2) Temperature Coefficient

Ambient Temperature(°C)	40	60	70	85	105
Coefficient	2.00	1.80	1.60	1.40	1.00

## ■ STANDARD RATINGS

[illegible]

**■ STANDARD RATINGS** Ripple Current : (mA rms) at 105°C 100Hz; Case Size  $\Phi$ D\*L (mm)

[illegible]