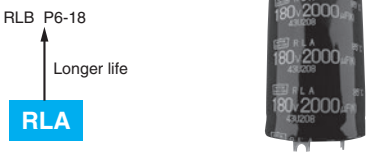
RLA Series

- Endurance with ripple current : 3,000 hours at 85℃
- High ripple current capability in a commercial frequency range
- High ripple current for inverter control like air conditioner
- Rated voltage range : 180 to 250Vdc, Capacitance range : 600 to 2,200μF
- Non solvent resistant type
- RoHS2 Compliant

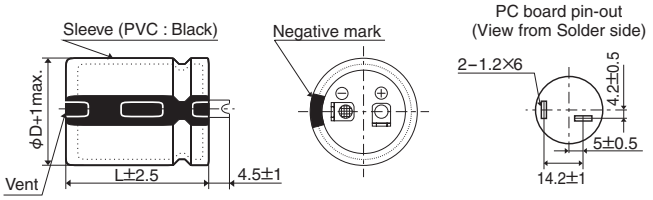


◆SPECIFICATIONS

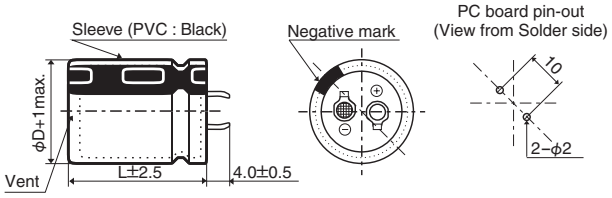
Items	Characteristics		
Category Temperature Range	-25 to +85℃		
Rated Voltage Range	180 to 250V		
Capacitance Tolerance	±10% (K)		(at 20℃, 120Hz)
Leakage Current	I≦3√CV Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)		(at 20℃ after 5 minutes)
Dissipation Factor (tan δ)	Rated voltage (V_{dc})	180 to 250V	
	tan δ (Max.)	0.15	(at 20℃, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V_{dc})	180 to 250V	
	Z(-25℃)/Z(+20℃)	4	(at 120Hz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 3,000 hours at 85℃.		
	Capacitance change	≦±20% of the initial value	
	D. F. (tan δ)	≦200% of the initial specified value	
	Leakage current	≦The initial specified value	
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours at 85℃ without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4.		
	Capacitance change	≦±15% of the initial value	
	D. F. (tan δ)	≦150% of the initial specified value	
	Leakage current	≦The initial specified value	

◆DIMENSIONS [mm]

●Terminal Code : LI (φ30, φ35) : Standard

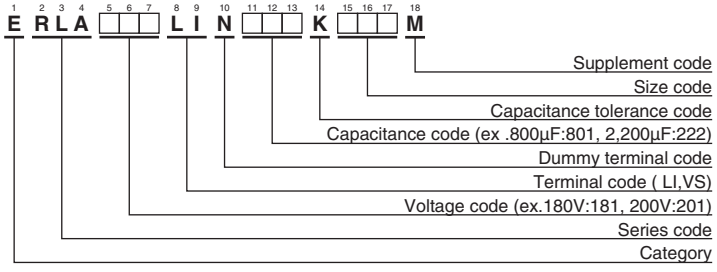


●Terminal Code : VS (φ30, φ35)



The standard design has no plastic disc.

◆PART NUMBERING SYSTEM



Please refer to "Product code guide (snap-in type)"

RLA Series

◆STANDARD RATINGS

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 85℃, 120Hz)	Part No.
180	900	30 × 35	0.15	4.66	ERLA181LIN901KR35M
	1,100	30 × 40	0.15	5.17	ERLA181LIN112KR40M
	1,300	30 × 45	0.15	5.64	ERLA181LIN132KR45M
	1,500	30 × 50	0.15	6.07	ERLA181LIN152KR50M
	1,500	35 × 40	0.15	5.75	ERLA181LIN152KA40M
	1,700	30 × 55	0.15	6.63	ERLA181LIN172KR55M
	1,800	35 × 45	0.15	6.37	ERLA181LIN182KA45M
	2,000	35 × 50	0.15	6.84	ERLA181LIN202KA50M
200	900	30 × 35	0.15	4.66	ERLA201LIN901KR35M
	1,000	30 × 40	0.15	5.01	ERLA201LIN102KR40M
	1,200	30 × 45	0.15	5.51	ERLA201LIN122KR45M
	1,200	35 × 35	0.15	5.14	ERLA201LIN122KA35M
	1,400	30 × 50	0.15	5.95	ERLA201LIN142KR50M
	1,400	35 × 40	0.15	5.66	ERLA201LIN142KA40M
	1,500	30 × 55	0.15	6.36	ERLA201LIN152KR55M
	1,600	35 × 45	0.15	6.14	ERLA201LIN162KA45M
	1,900	35 × 50	0.15	6.82	ERLA201LIN192KA50M
	2,200	35 × 55	0.15	7.60	ERLA201LIN222KA55M
210	800	30 × 35	0.15	4.48	ERLA211LIN801KR35M
	900	30 × 40	0.15	4.86	ERLA211LIN901KR40M
	1,100	30 × 45	0.15	5.39	ERLA211LIN112KR45M
	1,100	35 × 35	0.15	5.06	ERLA211LIN112KA35M
	1,200	30 × 50	0.15	5.71	ERLA211LIN122KR50M
	1,300	35 × 40	0.15	5.65	ERLA211LIN132KA40M
210	1,400	30 × 55	0.15	6.31	ERLA211LIN142KR55M
	1,500	35 × 45	0.15	6.21	ERLA211LIN152KA45M
	1,700	35 × 50	0.15	6.82	ERLA211LIN172KA50M
	2,000	35 × 55	0.15	7.62	ERLA211LIN202KA55M
220	700	30 × 35	0.15	4.27	ERLA221LIN701KR35M
	900	30 × 40	0.15	4.85	ERLA221LIN901KR40M
	1,000	30 × 45	0.15	5.19	ERLA221LIN102KR45M
	1,000	35 × 35	0.15	4.87	ERLA221LIN102KA35M
	1,200	30 × 50	0.15	5.68	ERLA221LIN122KR50M
	1,200	35 × 40	0.15	5.44	ERLA221LIN122KA40M
	1,300	30 × 55	0.15	6.09	ERLA221LIN132KR55M
	1,400	35 × 45	0.15	5.96	ERLA221LIN142KA45M
	1,600	35 × 50	0.15	6.51	ERLA221LIN162KA50M
	1,800	35 × 55	0.15	7.10	ERLA221LIN182KA55M
250	600	30 × 35	0.15	4.03	ERLA251LIN601KR35M
	800	30 × 40	0.15	4.66	ERLA251LIN801KR40M
	900	30 × 45	0.15	5.01	ERLA251LIN901KR45M
	900	35 × 35	0.15	4.73	ERLA251LIN901KA35M
	1,000	30 × 50	0.15	5.32	ERLA251LIN102KR50M
	1,100	35 × 40	0.15	5.33	ERLA251LIN112KA40M
	1,200	30 × 55	0.15	5.96	ERLA251LIN122KR55M
	1,200	35 × 45	0.15	5.68	ERLA251LIN122KA45M
	1,400	35 × 50	0.15	6.25	ERLA251LIN142KA50M
	1,600	35 × 55	0.15	6.87	ERLA251LIN162KA55M

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Frequency(Hz)	50	120	300	1k	10k	50k
180 to 250V_{dc}	0.70	1.00	1.17	1.32	1.45	1.50

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5℃ rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

Mouser Electronics

Authorized Distributor

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United Chemi-Con (UCC):

ERLA221LIN122KA40M ERLA201LIN222KA55M ERLA251LIN122KA45M ERLA201LIN142KA40M
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