

Data Sheet

Customer: _____

Product: Aluminum Electrolytic Capacitors – ELU Series

Size : 22x25mm ~ 40x60mm

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Record of change

Date	Ver.	Description	Page
15-Apr-2016	1		

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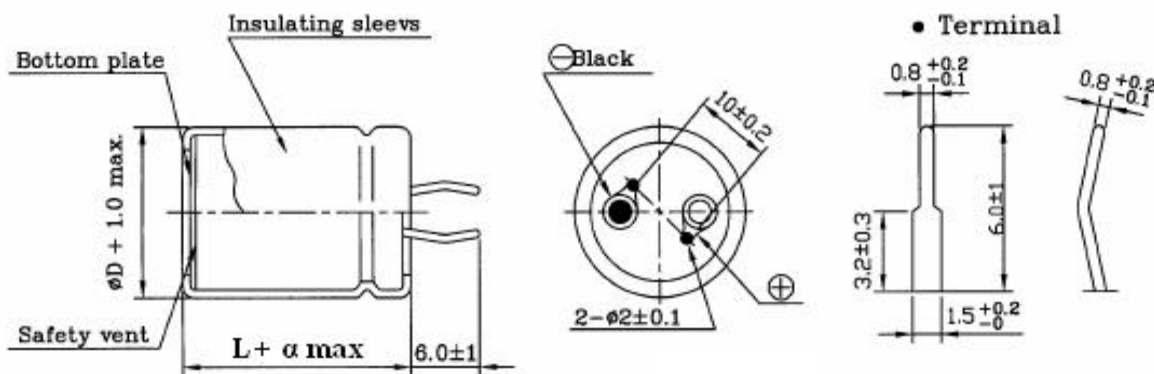
Prepared by	Checked by	Approved by	Accepted by (customer)
15-Apr-2016	15-Apr-2016	15-Apr-2016	
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- 85°C 3000 hours assured load life.
- Directly mountable on printed circuit board without holders.
- Rohs compliant
- Aluminum case designed explosion-proof vent.

Characteristics

Voltage Range	16 ~ 100V	160 ~ 450V						
Capacitance Range	220 ~ 82000uF	47 ~ 2700uF						
Temperature Range	-40 ~ +85°C	-25 ~ +85°C						
Capacitance Tolerance	±20% at 120Hz, 20°C (10% Tol. is available upon request)							
Leakage Current	$I = 3\sqrt{CV}$ (uA) max C: Capacitance, V:W.V. (After 5 minutes)							
Dissipation Factor (tanδ) (at 20°C, 120Hz)	Less than the value under table (%)							
	uF \\\ W.V.	16	25~35	50~63	80~100	160~250	315~450	
	68 ~ 390	-	-	-	-	15	20	
	470 ~ 3900	25	20	20	20	15	20	
	4700~8200	35	30	30	25	-	-	
	10000~22000	40	35	30	25	-	-	
	27000~47000	45	40	35	-	-	-	
Stability at Low Temperature	Impedance ration at 120Hz between the -25°C or -40°C value and 20°C value shall not exceed :							
	Rated Voltage (V)	16	25~100	160~250	315~450			
	Z-25°C/Z 20°C	5	4	4	8			
	Z-40°C/Z 20°C	20	20	-	-			
Load Life	The following specifications shall satisfied when the capacitors are restored to 20°C after rated working voltage applied for 3,000 hours at max. operating temperature with the rated ripple current.							
	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 85°C with no voltage applied, the capacitor shall meet the specified limit in load life. Pre-treatment for measurement shall be conducted after application of DC working voltage for 30 minutes.							

Diagram of Dimensions: (unit:mm)



Multiplier for Ripple Current VS Frequency

Cap.(uF)\ (Hz)	60	120	1K	10K	50K - 100K
10 < Cap. ≤ 100	0.8	1	1.36	1.48	1.53
100 < Cap. ≤ 1000	0.8	1	1.25	1.35	1.38
1000 < Cap.	0.8	1	1.17	1.25	1.28

(mm)

Dia	22 ~ 25	30 ~ 40
α	2	3

Standard Products Table

W.V.	400						450					
Dimension	A		B		C		A		B		C	
Cap. (uF)	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC	Size	RC
47	22x25	0.47					22x25	0.59				
68	22x25	0.69					22x25	0.71				
82	22x25	0.83					22x30	0.83	25x25	0.83		
100	22x30	0.92	25x25	0.92			22x35	0.93	25x25	0.93		
120	22x35	1.02	25x25	1.02			22x40	1.04	25x30	1.04	30x25	1.04
150	22x40	1.16	25x30	1.16	30x25	1.16	22x50	1.19	25x40	1.19	30x30	1.19
180	22x45	1.44	25x35	1.44			25x45	1.35	30x35	1.35	35x25	1.35
220	22x50	1.49	25x40	1.49	30x30	1.49	25x45	1.55	30x40	1.55	35x30	1.55
270	25x45	1.67	30x35	1.67	35x30	1.67	30x45	1.78	35x35	1.78		
330	30x40	1.90	35x35	1.90			30x50	2.01	35x40	2.01		
390	30x45	2.13	35x40	2.13			35x45	2.24				
470	35x40	2.39	35x45	2.39			35x45	2.53	35x50	2.53	40x40	2.53
560	35x45	2.69	35x50	2.69	40x40	2.69	35x50	2.88				
680	35x50	3.00					40x50	3.15				
820	40x50	3.38										

Unit : (mm)

Ripple Current (A, rms) at 85°C 120Hz

Part Numbering Designation

ELU	101	M	2G	B	A
SERIES	CAPACITANCE	TOL.	W.V.	PACKAGE	SIZE
	IN 3DIGITS	M= ± 20%	16= 16V	B= Bulk	A= A Size
	101= 100uF	K= ± 10%	25= 25V		B= B Size
	102= 1000uF		35= 35V		C= C Size
	103= 10,000uF		50= 50V		
			63= 63V		
			80= 80V		
			2A= 100V		
			2C= 160V		
			2D= 200V		
			2E= 250V		
			2V= 350V		
			2T= 385V		
			2G= 400V		
			2W= 450V		