## LZ Series

#### Low Impedance

- $\bullet$  Low Impedance with temperature range  $\,\text{-}55 \sim +105\,^{\circ}\!\mathrm{C}$
- Load life of 1000 ~ 2000 hours
- RoHS Compliance

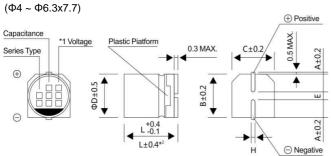


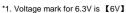


#### **■**SPECIFICATIONS

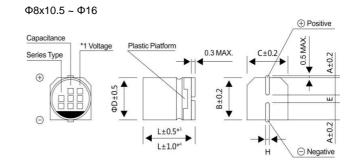
Item	Charact	eristics										
Operation Temperature Range	-55 ~ +1	55 ~ +105℃										
Voltage Range	6.3 ~ 50	.3 ~ 50V										
Capacitance Range	1~4700	μF										
Capacitance Tolerance	± 20 % (	20 % (at 120Hz , 20℃)										
	WV(V)	WV(V) 6.3 ~ 50										
	Size			Ф4 -	- 10					Ф12.5 ~ 16		
Leakage Current	Time		A (applica	fter 2 i						After 1 minutes (application of rated voltage)		
	L.C.				or 3μA , is greater					I≤0.03CV or 4μA , whichever is greater		
Discipation France (MAN)	V	/V(V)	6.3	10	16	25	35	50	7			
Dissipation Factor (MAX)	tanδ	Ф4~10	6.3	0.19	0.16	0.14	0.12	0.12				
(tanδ) (at 120Hz ,20℃)	tano	Ф12.5~16	6.3	0.22	0.18	0.16	0.14	0.12				
	WV(V)			6.3	10	16	25	35	50~100	-		
Low Temp.Impedance	<b>Z(-25</b> °C)	/ Z(+20°C)	Ф4~10	2	2	2	2	2	2			
Stability at 120Hz	Z(-55)°C/ Z(+20°C)			5	4	4	3	3	3			
	, ,	/ Z(+20°C)	Ф12.5~1	3	3	2	2	2	2			
	<b>Z(-55)</b> ℃	/ Z(+20°C)	6	10	8	6	4	3	3			
	After 2000hrs. (1000hrs. For Φ4~Φ6.3x5.4) application of the rated voltage at 105°C, they meet the characteristics listed below.											
Load Life		ance change	Э		Within ±20% of initial value							
	Dissipat	ion Factor			200% or less of initial specified value							
	Leakage	Current			initials	specifie	ed value or less					
Shelf Life	After lea		ors under i	no load	at 105	°C for 1	000 hot	urs, the	y meet th	ne specified value for load life characteristics		
	After ref	low solderin	g and rest	ored at	room t	empera	ature, th	ney me	et the ch	aracteristics listed below.		
	Capacita	ance change	Э		Within ±10% of initial value							
Resistance to Soldering Heat		ion Factor				specifie						
	Leakage	Current			initials	specifie	d value	or les	ss			
Marking	Black pr	int on the ca	ase top									

### **■** DRAWING (Unit: mm)





<sup>\*2</sup> Applicable to Φ6.3x7.7



<sup>\*3</sup> Applicable to Φ8x10.5 ~ Φ10

<sup>\*4</sup> Applicable to Φ12.5 ~ Φ16

# **ELCON**

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## ■ DIMENSIONS(Unit:mm)

ФDxL	4x5.4	5x5.4	6.3x5.4	6.3x7.7	8x10.5	10x10.5	10x13.5	12.5x13.5	12.5x16	16x16.5
Α	2.0	2.2	2.6	2.6	3.0	3.3	3.3	4.9	4.9	5.8
В	4.3	5.3	6.6	6.6	8.4	10.4	10.4	13.0	13.0	17.0
С	4.3	5.3	6.6	6.6	8.4	10.4	10.4	13.0	13.0	17.0
E±0.2	1.0	1.4	1.9	1.9	3.1	4.7	4.7	4.7	4.7	6.4
L	5.4	5.4	5.4	7.7	10.5	10.5	13.5	13.5	16.0	16.5
Н	0.5~0.8	0.5~0.8	0.5~0.8	0.5~0.8	0.8~1.2	0.8~1.2	0.8~1.2	0.8~1.2	0.8~1.2	0.8~1.2

## ■ DIMENSIONS&MAXIMUM PERMISSIBLE RIPPLE CURRENT&IMPEDANCE

	WV	6.3			10			16		
	Code µF		0J			1A		1C		
10	100							4x5.4	3.0	60
45	450							5x5.4	1.8	95
15	150							(4x5.4)	(3.0)	(60)
22	220	AvE A	2.0	60	5x5.4	1.8	95	5x5.4	1.8	95
22	220	4x5.4	3.0	60	(4x5.4)	(3.0)	(60)	(4x5.4)	(3.0)	(60)
33	330	5x5.4	1.8	95	5x5.4	1.8	95	6.3x5.4	1.0	140
აა	330	(4x5.4)	(3.0)	(60)	(4x5.4)	(3.0)	(60)	(5x5.4)	(1.8)	(95)
47	470	5x5.4	1.8	95	6.3x5.4	1.0	140	6.3x5.4	1.0	140
47	470	(4x5.4)	(3.0)	(60)	(5x5.4)	(1.8)	(95)	(5x5.4)	(1.8)	(95)
68	680	6.3x5.4	1.0	140 6.3x5.4	1.0	140	6.3x7.7	0.6	230	
00	000	(5x5.4)	(1.8)	(95)	0.333.4	1.0	140	(6.3x5.4)	(1.0)	(140)
100	101	6.3x5.4	1.0	140	6.3x7.7	0.6	230	6.3x7.7	0.6	230
100	101	(5x5.4)	(1.8)	(95)	(6.3x5.4)	(1.0)	(140)	(6.3x5.4)	(1.0)	(140)
150	151	6.3x7.7	0.6	230	6.3x7.7 (6.3x5.4)	0.6	230	6.3x7.7	0.6	230
150	131	(6.3x5.4)	(1.0)	(140)		(1.0)	(140)	0.0.7.7	0.6	230
220	221	6.3x7.7	0.6	230	6.3x7.7	0.6	230	8x10.5	0.30	450
220	221	(6.3x5.4)	(1.0)	(140)			230	(6.3x7.7)	(0.6)	(230)
330	331	1 6.3x7.7	0.6	230	8x10.5	0.30	450	10x10.5	0.15	670
330	331		0.0	230	0.0.0	0.30	450	(8x10.5)	(0.30)	(450)
470	471	8x10.5	0.30	450	8x10.5	0.30	450	10x10.5	0.15	670
470	471	6.0.5	0.30	430	0.0.0	0.30	450	(8x10.5)	(0.30)	(450)
680	681	8x10.5	0.30	450	10x10.5	0.15	670	10x10.5	0.15	670
1000	102	10x10.5	0.15	670	10x10.5	0.15	670	10x10.5	0.15	670
1000	102	(8x10.5)	(0.30)	(450)	10010.5	0.15	070	10010.5	0.13	070
1500	152	10x13.5	0.13	750	12.5x13.5	0.11	820	12.5x13.5	0.11	820
1300	132	(10x10.5)	(0.15)	(670)	(10x13.5)	(0.13)	(750)	12.5815.5	0.11	820
2200	222	12.5x13.5	0.11	820	12.5x16	0.00	950	16x16.5	0.08	1260
2200	222	(10x13.5)	(0.13)	(750)	12.5810	0.09	950	(12.5x16)	(0.09)	(950)
3300	332	12.5x16	0.09	950	16x16.5	0.08	1260	16x16.5	0.08	1260
3300	332	(12.5x13.5)	(0.11)	(820)	10.10.5	0.08	1200	10.10.5	0.00	1200
4700	472	16x16.5	0.08	1260	16x16.5	0.08	1260			

Cod	WV 25				35			50				
μF	15					1V			1H			
1.0	010				4x5.4	3.0	60	4x5.4	5.0	30		
1.5	1R5				4x5.4	3.0	60	4x5.4	5.0	30		
2.2	2R2				4x5.4	3.0	60	4x5.4	5.0	30		
3.3	3R3				4x5.4	3.0	60	4x5.4	5.0	30		
4.7	4R7	4x5.4	3.0	60	4x5.4	3.0	60	5x5.4	3.0	50		
6.8	6R8	4x5.4	3.0	60	5x5.4	1.8	95	6.3x5.4	2.0	70		
10	100	5x5.4	1.8	95	5x5.4	1.8	95	6.3x5.4	2.0	70		
10	100	(4x5.4)	(3.0)	(60)	(4x5.4)	(3.0)	(60)	0.333.4		/0		
15	150	6.3x5.4	1.8	95	5x5.4	1.8	95	6.3x5.4	2.0	70		
22	220	6.3x5.4	1.0	140	6.3x5.4	1.0	140	6.3x7.7	1.0	120		
22	220	(5x5.4)	(1.8)	(95)	(5x5.4)	(1.8)	(95)	(6.3x5.4)	(2.0)	(70)		

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### ■ DIMENSIONS&MAXIMUM PERMISSIBLE RIPPLE CURRENT&IMPEDANCE

	WV		25			35		50			
μF	μF Code 1		1E			1V			1H		
33	330	6.3x5.4 (5x5.4)	1.0 (1.8)	140 (95)	6.3x5.4	1.0	140	6.3x7.7	1.0	120	
47	470	6.3x7.7	0.6	230	6.3x7.7	0.6	230	6.3x7.7	1.0	120	
		(6.3x5.4)	(1.0)	(140)	(6.3x5.4)	(1.0)	(140)			-	
68	680	6.3x7.7	0.6	230	6.3x7.7	0.6	230	8x10.5	0.6	300	
100	101	6.3x7.7	0.6	230	8x10.5	0.3	450	8x10.5	0.6	300	
150	151	8x10.5	0.3	450	8x10.5	0.3	450	10x10.5	0.30	500	
		(6.3x7.7)	0.6	(230)							
220	221	8x10.5	0.30	450	10x10.5	0.15	670	10x10.5	0.3	500	
					(8x10.5)	(0.30)	(450)				
		10x10.5 (8x10.5)	0.15	670 (450)	1		670	16x16.5	0.12	1060	
330	331		(0.30)		10x10.5	0.15		12.5x13.5	(0.20)	(650)	
			(0.50)					10x13.5	(0.25)	(580)	
470	471	10x10.5	0.15	670	10x13.5	0.13	750	16x16.5	0.12	1060	
470	4/1		0.15	670	10x13.5	0.13	730	(12.5x16)	(0.15)	(700)	
000	004	40.40.5	0.40	750	12.5x13.5	0.11	820	10:10 5	0.40	4000	
680	681	10x13.5	0.13	750	(10x13.5)	(0.13)	(750)	16x16.5	0.12	1060	
4000	400	16x16.5	0.08	1260	16x16.5	0.08	1260				
1000	102	12.5x13.5	(0.11)	(820)	(12.5x16)	(0.09)	(950)				
1500	152	12.5x16	0.09	950	16x16.5	0.08	1260		Impedance (᠒) ) at 20℃ 100KHz	Ripple current	
2200	222	16x16.5	0.08	1260				Case size ФDxL (mm)		(mA rms) at 105°C, 100KHz	

### **■** FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

Frequency			50Hz	120Hz	300Hz	1KHz	10KHz~
Coefficient	Ф4~Ф10	1~68µF	0.35	0.50	0.64	0.83	1.00
	Ψ4~Ψ10	100~2200µF	0.40	0.55	0.70	0.85	1.00
	Ф12.5~Ф16	~680µF	0.45	0.65	0.80	0.90	1.00
	Ψ12.3~Ψ16	1000~4700μF	0.65	0.85	0.95	1.00	1.00