Aluminum Electrolytic Type / Surface Mount Type — RoHS compliance

LZ Series — Low Impedance

● Solvent proof (within 2 minutes)

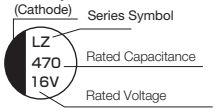
LZ
↑ Low Impedance
VT

■ Specifications

Items	Condition		Specifications								
Rated voltage (V)	–		4	6.3	10	16	25	35	50	63	100
Surge voltage (V)	Room temperature		5.0	8.0	13	20	32	44	63	79	125
Category temperature range (℃)	–		−55 to +105								
Capacitance tolerance (%)	120Hz/20℃		M : ±20								
Dissipation Factor (tan δ)	tanδ (max) 120Hz/20℃	φ4 to φ10	0.35	0.30	0.24	0.20	0.18	0.16	0.14	0.14	0.14
		φ12.5 to φ16	0.40	0.38	0.34	0.30	0.28	0.22	0.18	0.16	0.16
			Exceeding 1,000μF, +0.02 every 1,000μF								
Leakage current (LC)	μA/after 2minutes (max)		The greater value of either 0.01CV or 3μA								
Impedance ratio at low temperature	Based on the value at 120Hz, +20℃	−25℃ Z/Z20℃	4	4	3	3	2	2	2	2	2
		−55℃ Z/Z20℃	6	6	5	5	4	4	3	3	3
Endurance	105℃, 2,000hours rated voltage applied (With the rated ripple current)	△C/C	Within ±20% of the initial value(≤10V:±30%)								
		tanδ	Less than 200% of the specified value(≤10V:≤300%)								
		LC	Less than the specified value								

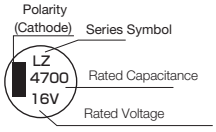
■ Marking, Dimensions

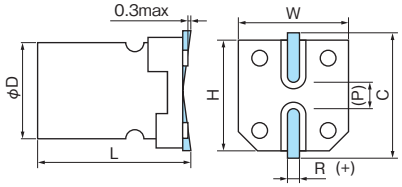
[φD≤10]



Black print on the case top

[φD≥12.5]





A pressure relief vent is provided for φD=8 or bigger

(P)reference size

(Unit : mm)

D±0.5	L	W±0.2	H±0.2	C±0.2	R	P±0.2
4	5.4±0.4	4.3	4.3	5.1	0.5 to 0.8	1.0
5	5.4±0.4	5.3	5.3	6.1	0.5 to 0.8	1.3
6.3	5.4±0.4	6.6	6.6	7.3	0.5 to 0.8	2.2
6.3	7.7±0.4	6.6	6.6	7.3	0.5 to 0.8	2.2
8	6.5±0.5	8.3	8.3	9.2	0.7 to 1.2	3.1
8	10.5±0.5	8.3	8.3	9.2	0.7 to 1.2	3.1
10	7.7±0.5	10.3	10.3	11.2	0.7 to 1.2	4.4
10	10.5±0.5	10.3	10.3	11.2	0.7 to 1.2	4.4
10	13.5±0.5	10.3	10.3	11.2	0.7 to 1.2	4.4
12.5	13.5±0.5	13.0	13.0	14.0	1.0 to 1.4	4.4
12.5	16.0±0.5	13.0	13.0	14.0	1.0 to 1.4	4.4
16	16.5±0.5	17.0	17.0	18.0	1.0 to 1.4	6.4

■ Ripple Current Frequency Coefficient

Frequency:F(Hz)		100≤F<1k	1k≤F<10k	10k≤F<100k	100k≤F
Capacitance:C(μF)	C≤33	0.35	0.70	0.90	1.00
	33<C≤150	0.40	0.85	0.92	1.00
	150<C	0.60	0.85	0.95	1.00

Aluminum Electrolytic Type / Surface Mount Type **RoHS compliance**

■ Size, Rated Ripple Current

μF \ V	6.3			10			16			25			35		
4.7													4×5.4	3.0	60
10													4×5.4	3.0	60
													5×5.4	1.8	95
22							4×5.4	3.0	60				5×5.4	1.8	95
													6.3×5.4	1.0	39
33				4×5.4	3.0	60				5×5.4	1.8	95	6.3×5.4	1.0	140
													6.3×7.7	0.6	230
47				4×5.4	3.0	60	5×5.4	1.8	95	6.3×5.4	1.0	140	6.3×5.4	1.0	140
													6.3×7.7	0.6	230
													8×6.5	0.6	230
68				5×5.4	1.8	95	6.3×5.4	1.0	140				6.3×7.7	0.6	230
100				5×5.4	1.8	100	6.3×5.4	1.0	140	6.3×5.4	1.0	140	6.3×7.7	0.6	230
										6.3×7.7	0.6	230	8×6.5	0.6	230
150				6.3×5.4	1.0	140	6.3×7.7	0.6	230	8×6.5	0.6	230	8×10.5	0.4	450
													10×7.7	0.4	450
220	6.3×5.4	1.0	140	6.3×5.4	1.0	140	6.3×7.7	0.6	230	8×10.5	0.3	450	8×10.5	0.4	450
				6.3×7.7	0.6	230	8×6.5	0.6	230	10×7.7	0.4	450	10×10.5	0.15	670
330	6.3×7.7	0.6	230	6.3×7.7	0.6	230	8×10.5	0.4	450	8×10.5	0.4	450	10×10.5	0.15	670
				8×6.5	0.6	230	10×7.7	0.4	450	10×10.5	0.15	670			
470	6.3×7.7	0.6	230	6.3×7.7	0.6	230	8×10.5	0.4	450	10×10.5	0.15	670	10×10.5	0.15	670
	8×6.5	0.6	230	8×6.5	0.6	230	10×10.5	0.15	670				10×13.5	0.13	750
				10×7.7	0.4	450									
680	8×10.5	0.4	450	10×10.5	0.15	670	10×10.5	0.15	670	10×13.5	0.13	750	10×13.5	0.13	750
	10×7.7	0.4	450										12.5×13.5	0.11	820
1000	8×10.5	0.4	450	8×10.5	0.4	450	10×10.5	0.15	670	10×13.5	0.13	750	12.5×13.5	0.11	820
	10×7.7	0.4	450	10×10.5	0.15	670	10×13.5	0.13	750	12.5×13.5	0.11	820	12.5×16	0.09	950
1500	10×10.5	0.15	670	10×13.5	0.13	750	12.5×13.5	0.11	820	12.5×16	0.09	950	16×16.5	0.08	1260
	10×13.5	0.13	750	12.5×13.5	0.11	820									
2200	10×13.5	0.13	750	12.5×13.5	0.11	820	12.5×16	0.09	950	16×16.5	0.08	1260			
	12.5×13.5	0.11	820	12.5×16	0.09	950	16×16.5	0.08	1260						
3300	12.5×13.5	0.11	820	16×16.5	0.08	1260	16×16.5	0.08	1260						
	12.5×16	0.09	950												
4700	16×16.5	0.08	1260	16×16.5	0.08	1260									

Case size: φDxL(mm)

Impedance(Ω) max at 100kHz, 20℃

Rated ripple current mArms(100kHz, 105℃)

■ Size, Rated Ripple Current

μF \ V	50			63			80			100		
1.0	4×5.4	5.0	30									
2.2	4×5.4	5.0	30							5×5.4	5.0	25
3.3	4×5.4	5.0	30							5×5.4	5.0	25
4.7	4×5.4	5.0	30	5×5.4	5.0	50				5×5.4	5.0	25
	5×5.4	3.0	50							6.3×5.4	5.0	40
10	5×5.4	3.0	50	6.3×5.4	3.0	80	6.3×7.7	3.0	60	6.3×7.7	3.0	60
										8×6.5	3.0	60
22	6.3×5.4	2.0	70	6.3×7.7	2.5	100	8×10.5	2.0	130	8×10.5	2.0	130
	6.3×7.7	1.0	120							10×10.5	1.5	180
33	6.3×7.7	1.0	120	8×10.5	2.0	250	10×10.5	1.5	180	10×10.5	1.5	180
										10×13.5	1.2	210
47	6.3×7.7	1.0	120	8×10.5	2.0	250	8×10.5	2.0	130	10×10.5	1.5	180
	8×6.5	1.0	120	10×7.7	2.0	250	10×10.5	1.5	180	10×13.5	1.2	240
	8×10.5	0.8	280	10×10.5	1.5	300	10×13.5	1.2	240	12.5×13.5	0.85	500
68	8×10.5	0.8	300	10×10.5	1.5	300	10×10.5	1.5	180	12.5×13.5	0.85	500
	10×10.5	0.6	450	10×13.5	1.0	400	10×13.5	1.2	240	12.5×16	0.75	550
				12.5×13.5	0.85	500	12.5×13.5	0.85	500			
100	8×10.5	0.8	300	10×10.5	1.5	300	10×10.5	1.5	180	12.5×13.5	0.85	500
	10×7.7	0.8	300	10×13.5	1.0	400	10×13.5	1.2	240	12.5×16	0.75	550
	10×10.5	0.6	450	12.5×13.5	0.85	500	12.5×13.5	0.85	500	16×16.5	0.55	650
150	10×10.5	0.6	450	10×13.5	1.0	400	12.5×13.5	0.85	500			
	10×13.5	0.45	500	12.5×13.5	0.85	500	12.5×16	0.75	550			
220	10×10.5	0.45	500	12.5×13.5	0.65	550	12.5×16	0.65	650			
	10×13.5	0.35	550	12.5×16	0.55	650	16×16.5	0.55	750			
330	10×13.5	0.35	580	16×16.5	0.45	850	16×16.5	0.45	850			
	12.5×13.5	0.25	650									
	12.5×16	0.20	850									
470	12.5×16	0.20	700									
	16×16.5	0.15	950									
680	16×16.5	0.15	950									

Case size: φDxL(mm)

Impedance(Ω) max at 100kHz, 20℃

Rated ripple current mArms(100kHz, 105℃)