

# Aluminum Electrolytic Type / Surface Mount Type

RoHS compliance

# LZ

## Series

Low Impedance



- Solvent proof (within 2 minutes)



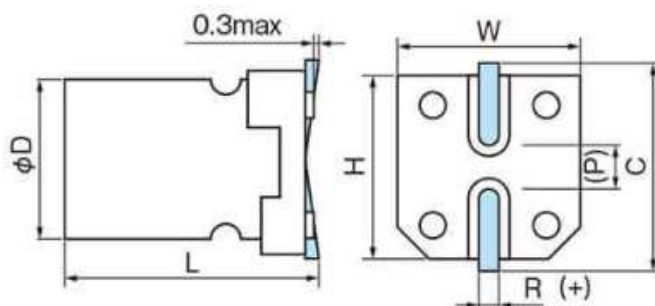
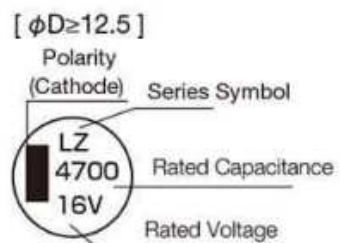
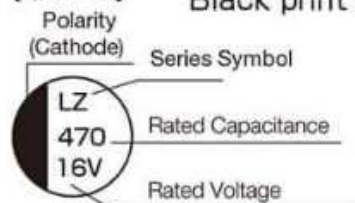
## ■ Specifications

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 (°C)		-		-55 to +105								
Capacitance tolerance (%)		120Hz/20°C		M : ±20								
Dissipation Factor (tan δ)	tan δ (max) 120Hz/20°C	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
Leakage current (LC)		μA/after 2minutes (max)		Exceeding 1,000μF, +0.02 every 1,000μF The greater value of either 0.01CV or 3μA								
Impedance ratio at low temperature	Based on the value at 120Hz, +20°C	-25°C	Z/Z <sub>20°C</sub>	4	4	3	3	2	2	2	2	2
		-55°C	Z/Z <sub>20°C</sub>	6	6	5	5	4	4	3	3	3
Endurance	105°C, 2,000hours rated voltage applied (With the rated ripple current)	ΔC/C		Within ±20% of the initial value(≤10V:±30%)								
		tan δ		Less than 200% of the specified value(≤10V:≤300%)								
		LC		Less than the specified value								

## ■ Marking, Dimensions

(Unit : mm)

[  $\phi D \leq 10$  ] Black print on the case top



A pressure relief vent is provided for  $\phi D=8$  or bigger (P)reference size

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

## ■ Ripple Current Frequency Coefficient

Frequency:F(Hz)		$100 \leq F < 1k$	$1k \leq F < 10k$	$10k \leq F < 100k$	$100k \leq F$
Capacitance:C( $\mu$ F)	$C \leq 33$	0.35	0.70	0.90	1.00
	$33 < C \leq 150$	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

$\mu\text{F}$ \ V	6.3			10			16			25			35		
4.7													4x5.4	3.0	60
10													4x5.4	3.0	60
22							4x5.4	3.0	60				5x5.4	1.8	95
33				4x5.4	3.0	60				5x5.4	1.8	95	6.3x5.4	1.0	140
47				4x5.4	3.0	60	5x5.4	1.8	95	6.3x5.4	1.0	140	6.3x7.7	0.6	230
68				5x5.4	1.8	95	6.3x5.4	1.0	140				6.3x5.4	1.0	140
100				5x5.4	1.8	100	6.3x5.4	1.0	140	6.3x5.4	1.0	140	6.3x7.7	0.6	230
150				6.3x5.4	1.0	140	6.3x7.7	0.6	230	8x6.5	0.6	230	8x6.5	0.6	230
220	6.3x5.4	1.0	140	6.3x5.4	1.0	140	6.3x7.7	0.6	230	8x10.5	0.3	450	8x10.5	0.4	450
330	6.3x7.7	0.6	230	6.3x7.7	0.6	230	8x6.5	0.6	230	10x7.7	0.4	450	10x10.5	0.15	670
470	6.3x7.7	0.6	230	6.3x7.7	0.6	230	8x10.5	0.4	450	10x10.5	0.4	450	10x10.5	0.15	670
680	8x6.5	0.6	230	8x6.5	0.6	230	10x7.7	0.4	450	10x10.5	0.15	670	10x10.5	0.15	670
	8x10.5	0.4	450	10x7.7	0.4	450							10x13.5	0.13	750
	10x7.7	0.4	450										10x13.5	0.13	750
1000	8x10.5	0.4	450	10x10.5	0.15	670	10x10.5	0.15	670	10x13.5	0.13	750	12.5x13.5	0.11	820
	10x7.7	0.4	450	10x10.5	0.15	670	10x13.5	0.13	750	12.5x13.5	0.11	820	12.5x16	0.09	950
1500	10x10.5	0.15	670	10x13.5	0.13	750	12.5x13.5	0.11	820						
	10x13.5	0.13	750	12.5x13.5	0.11	820									
2200	10x13.5	0.13	750	12.5x13.5	0.11	820	12.5x16	0.09	950	16x16.5	0.08	1260			
	12.5x13.5	0.11	820	12.5x16	0.09	950	16x16.5	0.08	1260						
3300	12.5x13.5	0.11	820	16x16.5	0.08	1260	16x16.5	0.08	1260						
	12.5x16	0.09	950												
4700	16x16.5	0.08	1260	16x16.5	0.08	1260									

Case size:  $\phi$ DxL(mm)

Impedance( $\Omega$ )  
max at 100kHz, 20°C

Rated ripple current  
mA rms(100kHz, 105°C)