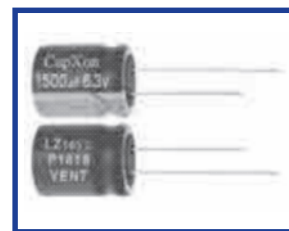


## LZ Series Ultra Low Impedance

### Features

- ◆ Ultra low impedance in 100KHz.
- ◆ Allow higher ripple current applied due to ultra low impedance.
- ◆ Endurance 2000hrs at 105°C
- ◆ Suitable for application of mother board, computer peripheral etc.
- ◆ RoHS Compliant



### Specifications

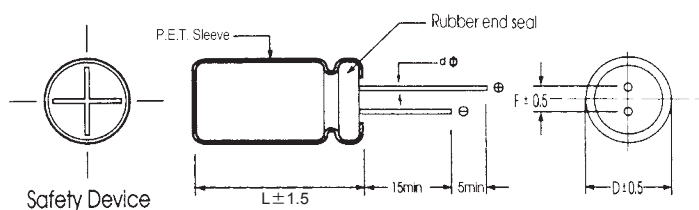
Item	Performance Characteristics				
Operating Temperature Range	-40 ~ +105°C				
Rated Voltage Range	6.3 ~ 25V with rate working voltage applied				
Capacitance Range	220 to 3300 μF				
Capacitance Tolerance	±20% (20°C, 120Hz)				
Leakage Current (+20°C, max.)	I ≤ 0.01CV or 3 μA After 2 minutes whichever is greater measured				
Dissipation Factor (tan δ , at 20°C , 120Hz)	Rated Voltage(V)	6.3	10	16	25
	D.F. (%) max	14	12	10	9
For capacitance > 1000 μF, add 2% per another 1000 μF					
Low Temperature Characteristics (at 120Hz)	Impedance ratio max				
	Rated Voltage(V)	6.3	10	16	25
	Z-25°C / Z+20°C	4	3	2	2
For Capacitance Value > 1000 μF, add 0.5 per another 1000 μF for -25°C / +20°C add 1 per another 1000 μF for -40°C / +20°C					
Endurance	Test Conditions				
	Duration	: 2000 hrs			
Ambient temperature		: +105°C			
Applied voltage		: Rated DC working voltage			
After test requirement at +20°C					
Capacitance change		: Within ±25% of the initial measured value			
Dissipation factor		: Not exceed 200% of the initial specified value			
Leakage current		: Not exceed the specified value			
Shelf Life	Test Conditions				
	Duration	: 1000 hrs			
Ambient temperature		: +105°C			
After test requirement at +20°C					
Capacitance change		: Within ±25% of the initial measured value			
Dissipation factor		: Not exceed 200% of the initial specified value			
Leakage current		: Not exceed the specified value			

Radial

### Multiplier for Ripple Current vs. Frequency

CAP(μF) / Frequency(Hz)	120	1K	10K	100K
100~330uF	0.40	0.75	0.93	1.00
390~1000uF	0.50	0.85	0.95	1.00
1200~3300uF	0.55	0.90	0.98	1.00

### Diagram of Dimensions:(unit:mm)



D φ	8	10
F	3.5	5.0
d φ	L < 20	L ≥ 20
	0.5	0.6

## Case Size

WV (Vdc)	Cap (uF)	Size (mm)	Ripple current (mArms/105°C /100KHz)	Max Imp.( Ω) at 20°C/100KHz
6.3	560	8x11.5	1080	0.04
6.3	680	8x11.5	1080	0.04
6.3	820	8x11.5	1080	0.04
6.3	1000	8x16	1100	0.04
6.3	1000	10x12.5	1500	0.03
6.3	1200	8x16	1450	0.03
6.3	1500	8x20	1850	0.02
6.3	1500	10x12.5	1500	0.03
6.3	1800	10x16	1910	0.02
6.3	2200	8x20	1850	0.02
6.3	2200	10x16	1910	0.02
6.3	2700	10x20	2540	0.01
6.3	3300	10x30	2800	0.01
10	470	8x11.5	1080	0.04
10	560	8x11.5	1080	0.04
10	680	8x11.5	1080	0.04
10	680	10x12.5	1500	0.03
10	820	10x12.5	1450	0.03
10	1000	8x16	1450	0.03
10	1000	10x12.5	1500	0.03
10	1200	8x20	1850	0.02
10	1500	8x20	1850	0.02
10	1500	10x16	1910	0.02
10	1800	10x20	2540	0.02
10	2200	10x20	2540	0.02

WV (Vdc)	Cap (uF)	Size (mm)	Ripple current (mArms/105°C /100KHz)	Max Imp.( Ω) at 20°C/100KHz
10	2200	10x25	2800	0.01
16	330	8x11.5	1080	0.04
16	470	8x11.5	1080	0.04
16	470	10x12.5	1500	0.03
16	560	8x16	1450	0.03
16	680	8x16	1450	0.03
16	680	10x12.5	1500	0.03
16	820	8x20	1850	0.02
16	1000	8x20	1850	0.02
16	1000	10x16	1910	0.02
16	1200	10x20	2540	0.02
16	1500	10x20	2540	0.02
16	1800	10x25	2800	0.01
25	220	8x11.5	1080	0.032
25	270	8x11.5	1150	0.031
25	330	8x11.5	1450	0.029
25	330	10x12.5	1650	0.027
25	470	8x20	1720	0.020
25	470	10x12.5	1700	0.025
25	470	10x16	1830	0.022
25	560	10x16	1850	0.021
25	680	8x20	1820	0.018
25	680	10x16	1920	0.02
25	680	10x20	2060	0.02
25	1000	10x20	2180	0.02