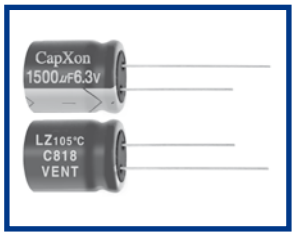
LZ Series Ultra Low Impedance



Features

- ◆ Ultra low impedance in 100KHz.
- ◆ Allow higher ripple current applied due to ultra low impedance.
- ◆ Load life 2000hrs at 105℃
- ◆ Suitable for application of mother board, computer peripheral etc.
- ◆ For more details, please refer to CapXon Engineering Bulletin No. 133
- ◆ RoHS Compliant

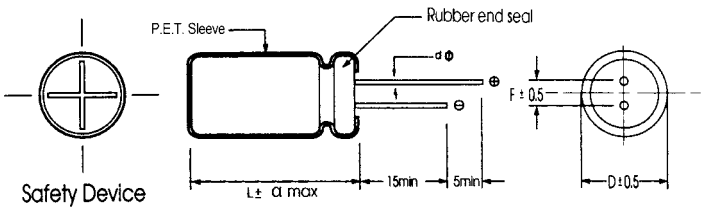
Specifications

Item	Performance Characteristics
Operating Temperature Range	-40 ~ +105℃
Rated Voltage Range	6.3 ~ 25V with rate working voltage applied
Capacitance Range	220 to 3300 μF
Capacitance Tolerance	±20% (20℃, 120Hz)
Leakage Current (+20℃,max.)	I ≦0.01CV or 3 μA After 2 minutes whichever is greater measured
Dissipation Factor (tan δ ，at 20℃，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℃／Z+20℃ 4 3 2 2 Z-40℃／Z+20℃ 6 4 3 3 For Capacitance Value > 1000 μF, add 0.5 per another 1000 μF for -25℃／+20℃ add 1 per another 1000 μF for -40℃／+20℃
Load Life	Test Conditions Duration : 2000 hrs Ambient temperature : +105℃ Applied voltage : Rated DC working voltage After test requirement at +20℃ 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℃ After test requirement at +20℃ 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

Multiplier for Ripple Current vs. Frequency

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

Diagram of Dimensions:(unit:mm)



DΦ	8		10
F	3.5		5.0
dΦ	L<20	L≧20	0.6
	0.5	0.6	

α	D<18	D=18		D>18
		L<35.5	L≧35.5	
	1.5	1.5	2.0	2.0

Radial

Case Size

φ DxL(mm)

WV / Cap(μF)	6.3			10			16		
	Size	Ripple	Impedance	Size	Ripple	Impedance	Size	Ripple	Impedance
330							8X11.5	1080	0.038
470				8X11.5	1080	0.038	8X11.5	1080	0.038
							10X12.5	1500	0.027
560	8x11.5	1080	0.038	8X11.5	1080	0.038	8X16	1450	0.029
680	8x11.5	1080	0.038	8X11.5	1080	0.038	8X16	1450	0.029
				10X12.5	1500	0.027	10X12.5	1500	0.027
820	8x11.5	1080	0.038	10X12.5	1450	0.029	8X20	1850	0.020
1000	8x16	1100	0.036	8X16	1450	0.029	8X20	1850	0.020
	10x12.5	1500	0.027	10X12.5	1500	0.027	10X16	1910	0.018
1200	8x16	1450	0.029	8X20	1850	0.020	10X20	2540	0.017
1500	8x20	1850	0.020	8X20	1850	0.020	10X20	2540	0.015
	10x12.5	1500	0.027	10X16	1910	0.018			
1800	10x16	1910	0.018	10X20	2540	0.016	10X25	2800	0.013
2200	8x20	1850	0.020	10X20	2540	0.015			
	10x16	1910	0.018	10X25	2800	0.014			
2700	10x20	2540	0.013						
3300	10x30	2800	0.012						

WV / Cap(μF)	25		
	Size	Ripple	Impedance
220	8X11.5	1080	0.032
270	8X11.5	1150	0.031
330	8X11.5	1450	0.029
	10X12.5	1850	0.027
470	8X20	1720	0.020
	10X12.5	1440	0.025
	10X16	1830	0.022
560	10X16	1850	0.021
680	8X20	1820	0.018
	10X16	1920	0.020
	10X20	2060	0.018
1000	10X20	2180	0.016

Ripple Current (mA, rms) at 105℃ 100KHz

Max ESR (Ω) at 20℃ 100KHz