

## 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°C
- ◆ Suitable for application of mother board, computer peripheral etc.
- ◆ For more details, please refer to CapXon Engineering Bulletin No. 133
- ◆ RoHS Compliant



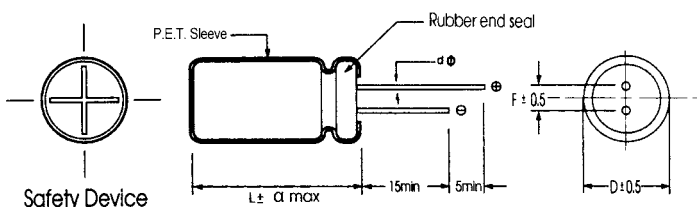
### Specifications

Item	Performance Characteristics				
Operating Temperature Range	-40 ~ +105°C				
Rated Voltage Range	6.3 ~ 25V with rate working voltage applied				
Capacitance Range	220 to 3300 μ F				
Capacitance Tolerance	±20% (20°C, 120Hz)				
Leakage Current (+20°C,max.)	I ≤ 0.01CV or 3 μ A 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 μ F, add 2% per another 1000 μ F					
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 μ F, add 0.5 per another 1000 μ F for -25°C / +20°C add 1 per another 1000 μ F for -40°C / +20°C					
Load Life	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				

### Multiplier for Ripple Current vs. Frequency

CAP(μ F)\Frequency(Hz)	120Hz	1KHz	10KHz	100KHz
100 ~ 330 μ F	0.40	0.75	0.93	1.00
390 ~ 1000 μ F	0.50	0.85	0.95	1.00
1200 ~ 3300 μ F	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 0.5	L ≥ 20 0.6
	0.6	

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

## Case Size

WV		6.3			10			16		
		Size	Ripple	Impedance	Size	Ripple	Impedance	Size	Ripple	Impedance
Cap(μF)										
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	
	8x16	1100	0.036	8X16	1450	0.029	8X20	1850	0.020	
1000	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	
	8x20	1850	0.020	8X20	1850	0.020	10X20	2540	0.015	
1500	10x12.5	1500	0.027	10X16	1910	0.018				
1800	10x16	1910	0.018	10X20	2540	0.016	10X25	2800	0.013	
	8x20	1850	0.020	10X20	2540	0.015				
2200	10x16	1910	0.018	10X25	2800	0.014				
2700	10x20	2540	0.013							
3300	10x30	2800	0.012							

φ DxD(mm)

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

Ripple Current ( mA, rms ) at 105°C 100KHz  
 Max ESR (Ω) at 20°C 100KHz