

CapXon LZ Series

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



Specifications

Item	Performance Characteristics				
Operating Temperature Range	-40 ~ +105°C				
Rated Voltage Range	6.3 ~ 25V with rate working voltage applied				
Capacitance Range	100 ~ 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)	(+20°C, 120Hz)	Rated Voltage(V)	6.3	10	16
		D.F. (%) max	14	12	10
			9		
Low Temperature Characteristics (120Hz)	Impedance Ratio max	Rated Voltage(V)	6.3	10	16
		Z-25°C / Z+20°C	4	3	2
		Z-40°C / Z+20°C	6	4	3
	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				
Load Life	Test Conditions Duration : 2000 hrs Ambient temperature : +105°C Test Load : Rated DC voltage with ripple current applied After test requirements 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 Test Load : DC rated voltage with ripple current applied After test requirements 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				

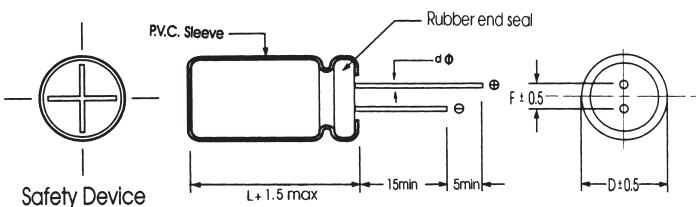
Multiplier for Ripple Current vs. Frequency

CAP(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

Multiplier for Ripple Current vs. Temperature

Temperature(°C)	45	60	70	85	95	105
Multiplier	1.80	1.50	1.45	1.30	1.20	1.00

Diagram of Dimensions:(unit:mm)



Dψ	8	10
F	3.5	5.0
dψ	0.5	0.6

CapXon LZ Series

Case Size

WV(SV) Spec	6.3 (8)			10 (13)			16 (20)			ϕ DxL(mm)	
	Cap(μF)	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(SV) Spec	25 (32)			
	Cap(μF)	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	
	8X20	1720	0.020	
470	10X12.5	1440	0.025	
	10X16	1830	0.022	
560	10X16	1850	0.021	
	8X20	1820	0.018	
680	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

Radial