

CDCL WLZ DATA SHEET



MODEL	CDCL WLZ
PART NUMBER	CDCL3000C0-0003R0WLZ

Version	Revision of historical records
V2020-1	The First Release
V2020-2	Version Update
V2020-3	Version Update
V2020-4	ESR parameters optimization

FEATURES

- Low ESR & High Power Density
- Over 1,000,000 duty cycles
- Laser welding connection

APPLICATIONS

- EV/HEV
- Heavy duty machinery
- Hybrid drive trains
- Locomotive engine startup system
- Mass transportation braking energy recovery system

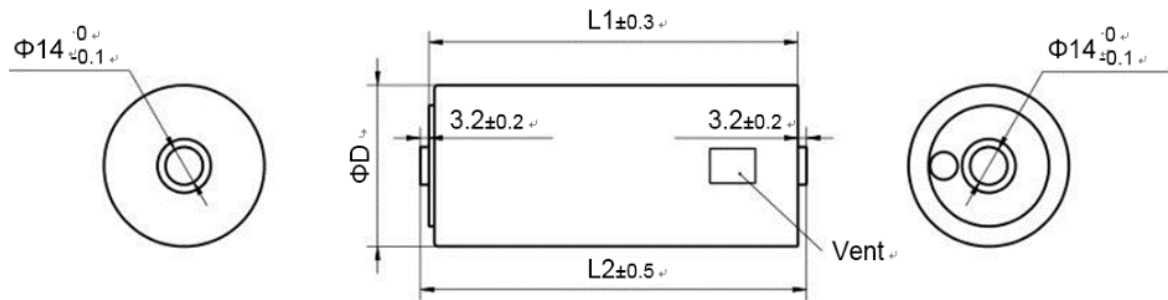
CONSTRUCTION & DIMENSIONS

1) Construction

Inside structure: fold anode and cathode electrode with separator

Outer structure: aluminum case, insulating sleeve

2) Dimensions



PRODUCT	DIMENSION (mm)		
	D(Max.)	L1	L2
3000F	60.8	138	144.4

SPECIFICATIONS

Items	Characteristics
Operating Voltage	3.0V DC
Surge Voltage	3.15V DC
Operating Temperature Range	-40°C to 65°C
Capacitance Tolerance	0% to +20% (25°C)
Temperature Performance (-40°C to 65°C)	$\Delta C \leq 5\%$ of rated value@ 25°C $\Delta ESR \leq 50\%$ of rated value @ 25°C
Life (1,500 hours @ 65°C, 3.0V DC)	$C_{end} \geq 80\%$ of rated value $ESR_{end} \leq 200\%$ of rated value
Cycle life (1,000,000 cycles between V_R and $1/2V_R$)	$C_{end} \geq 80\%$ of rated value $ESR_{end} \leq 200\%$ of rated value

DETAIL SPECIFICATIONS

CAP (F)	Part Number	ESR(mΩ)		LC (mA, RT 72hrs)	MAX. Energy Stored (Wh)	Max. Energy Density (Wh/kg)	Max. Continuous Current (15/40°C, A)	Max. Peak Current (A)	Typical Thermal Resistance (R _{th} , °C/W)	Typical Thermal Capacitance, (C _{th} , J/°C)	Typical Mass (g)
		AC@ 1kHz Max.	DC Max.								
3000	CDCL3000C0-0003ROWLZ	0.18	0.30	12.0	3.75	7.5	127/207	2368	3.2	590	500

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