

DATASHEET ENHANCED ESR 3.0V CELL WL SERIES



PRODUCT CODES	CTC 03000C0 0003V0 WL10
DATASHEET VERSION	V2020-0 of 03/12/2020

CapTop Enhanced ESR 3.0V Cell WL Series has Enhanced ESR & High Power Density, over 1,000,000 duty cycles, long life of high current pulse, laser welding connection and low maintenance needs.

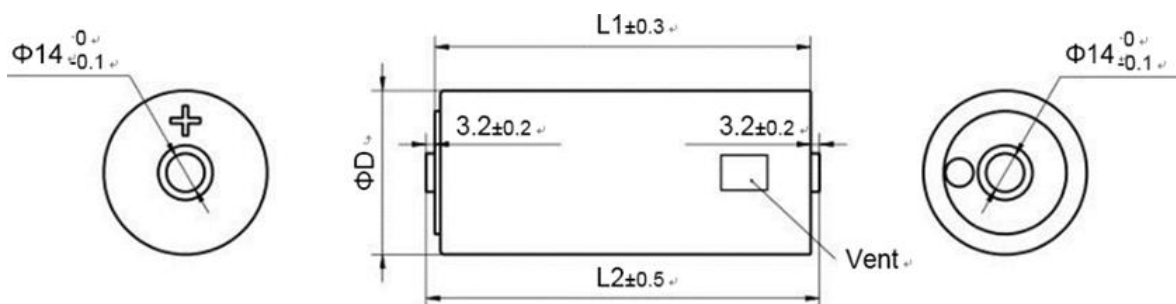
Suitable for applications like EV/HEV.

CONSTRUCTION & DIMENSIONS

1) Construction

Inside structure: fold anode and cathode electrode with separator
Outer structure: aluminum case, insulating sleeve

2) Dimensions



Product Code	L/mm		
	D (Max.)	L1	L2
CTC 03000C0 0003V0WL10	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

STANDARD PRODUCT												
CAP (F)	Product Code	ESR (mΩ)		LC (mA, RT 72hrs)	Max. Energy Stored (Wh)	Max. Energy Density (Wh/Kg)	Max. Power Density (kw/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.									
3,000	CTC 03000C0 0003VO WL10	0.09	0.11	12	3.75	7.38	39.34	209/342	3,383	3.1	614	508

*All values are provisional and may vary

Product dimensions are for reference only unless otherwise identified.
Product dimensions and specifications may change without notice.
Product complies to the following certification requirements:



Version	Date	Revision History
V2020-0	03/12/2020	Original Version

CAPTOP S.R.L

S.S. 87 Km 16.460 Zona Industriale A.S.I.
80023 Pascarola – Caivano (NA) – Italia

E-mail: info@captop.it

Ph: +39 081 834.92.09

Fax: +39 081 834.90.93

www.captop.it