LC0200-380-ASW



APPLICATIONS

- Start-up Power supply
- Industrial Backup Power
- Energy Harvesting
- Remote Power Supply
- Peak Load Shaving

44444

FEATURES & ADVANTAGES

- 1M Cycles Lifetime
- 10 Years Calendar Life
- Low Self-Discharge
- Safe: No Thermal Runaway
- High Power Density



Specifications

Consoitanos	Rated ¹	200F
Capacitance	Minimum initial	200F
	Nominal	3.8V DC
Voltage	Minimum	2.2V DC
	Maximum ²	4.2V DC
	Typical	30mΩ
Lon	Maximum initial	50mΩ
	Max energy ³	0.4Wh
Energy	Usable energy ⁴	0.27Wh
Storage	Volumetric energy density ⁵	15.4Wh/liter
	Gravametric energy density ⁶	8.9Wh/kg
Self Discharge	Voltage drop after 6 months at 25°C	<14%

Temperature

Temperature Characteristics	Operating temperature range	-10°C to +65°C
	Storage temperature range	-10°C to +70°C

Standards, Safety & Environmental

	Short circuit current	76A
Safety	 This product may vent or rupture if overcharged, rever incinerated or heated above 100°C Do not crush, mutilate, or disassemble Do not dispose of unit in trash 	se charged

Service Lifetime

	Product held at nominal voltage in 65°C environment for 1000 hours				
Endurance	Change in capacitance (% drop from rated)	≤20%			
	Change in ESR (% increase from maximum initial)	≤100%			
	Product held at rated voltage in 25°C environment				
	Life (projected)	10+ years			
DC Llie	Change in capacitance (% drop from rated)	≤20%			
	Change in ESR (% increase from maximum initial)	≤100%			
	Cycling from V_{nom} to V_{min} under constant current in 25°C environment				
Cycle Life	Life (projected)	>1M cycles			
Cycle Life	Change in capacitance (% drop from rated)	≤20%			
	Change in ESR (% increase from maximum initial)	≤100%			
Storogo Life	Stored uncharged in original packaging in 25°C environment				
Slorage Lile	Life	4 years			

Physical Characteristics

Machanical	Vibration	IEC60068-2-6, SAE J380
MECHANICA	Shock	IEC60068-2-27, SAE J2464

LICAP

3.8V, 200F Lithium Ion Capacitor Cell

Outline Drawings:



Weight and Size: Weight: 30g | Size: 66.0 L/mm, 18.3 D/mm

Naming Rules:

LICAP

	Туре	Capacaitance	Dash	Rated Voltage	Dash	Termination
LC	Lithium Ion Capacitor Cell	0200 = 200F	-	380 = 3.8V	-	ASW = Axial Spot Weld

Notes:

1. Measure capacitance and DC internal resistance at 25°C under specified test current per Figure 1



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- 2. Maximum voltage is non-repeatable and duration cannot exceed 1s
- 3. 0.5C(V_{nom}²)/3600
- 4. 0.5C(V_{nom}² V_{min}²)/3600

5.
$$Wh_{usable} / \left(\frac{\pi r^2(mm) \times L(mm)}{1 \times 10^6} \right)$$

- 6. Wh_{usable}/weight(kg)
- 7. Per IEC62391-2, $P_d = \frac{0.12V^2}{ESR_{DC}x Weight(kg)}$
- Specifications are subject to change without notice.

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