

CC1150

Rechargeable Lithium ion 'Mini' Credit Card Battery

Technical Datasheet

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Overview

The CC1150 is part of the Entellion range. Entellion products are smart, innovative portable power products, designed to meet the emerging needs of feature-laden devices in professional markets. Created and manufactured by Ultralife UK, Entellion combines our expertise in custom OEM requirements and market trends. Entellion products are available off the shelf and can be customised for your application, getting you to market quickly and confidently.

Features

- 3.7V high energy density Lithium ion technology
- 'Mini' credit card battery footprint (54.0mm x 54.0mm)
- Impedance tracking fuel gauge with I²C communication
- Active protection circuitry (OV, UV, OC, SC)
- Redundant passive over-current protection
- 7 position Tyco connector interface
- Tough plastic enclosure
- IEC 62133-2:2017 (safety) & UN 38.3 (transport) compliant
- CE marked (EMC/ESD compliance)
- Customisation to labelling, case colour and firmware possible

Technical Specifications

Part No.	CC1150	
Capacity	0.2C (Typical)	1150mAh ⁽¹⁾⁽²⁾⁽⁴⁾
	0.2C (Minimum)	1093mAh ⁽¹⁾⁽²⁾⁽⁴⁾
Charging	Voltage	4.20V ⁽⁸⁾
	Current (Typical)	550mA (0.5C)
	Current (Maximum)	1093mA (1.0C) ⁽⁸⁾
	Temperature	0°C to +45°C
Discharging	Voltage (Average)	3.7V ⁽²⁾
	Cut-Off Voltage	3.0V ⁽⁷⁾
	Current (Maximum)	2.0A ⁽⁸⁾
	Temperature	-10°C to +50°C ⁽⁴⁾⁽⁶⁾
Storage	Temperature	-20°C to +60°C
Cycle Life	>300 (Typ) ⁽¹⁾⁽³⁾⁽⁵⁾⁽⁶⁾	
Dimensions	Length	54.0mm ± 0.20mm
	Width	54.0mm ± 0.20mm
	Thickness	9.1mm ± 0.20mm
Weight	37g (Typical)	
Fuel Gauge	Texas Instruments BQ27541-G1 Impedance Tracking fuel gauge with I ² C communication	
Termination	7 way Tyco connector 1827684-1 (mates with Tyco 1827654-1 or -2)	
Certification	Transportation	ST/SG/AC.10.11 Rev 5 (UN 38.3 T1-T8 Tests)
	Safety	IEC 62133-2:2017
	CE Marking	EMC Directive 2014/30/EU

Notes

1. CVCC 4.20V, 0.5C charge to 0.05C current taper at +20°C.
2. 0.2C discharge to 3.0V within 1 hour of charge at +20°C.
3. 0.5C discharge to 3.0V within 1 hour of charge at +20°C.
4. Discharge performance degrades at lower temperatures, empirical testing in application is suggested to determine suitability.
5. To 80% of 0.2C minimum rated capacity.
6. Cycle life degrades at higher operating temperatures, empirical testing in application suggested to determine suitability.
7. Application should terminate discharge below this level.
8. Do not exceed this level.

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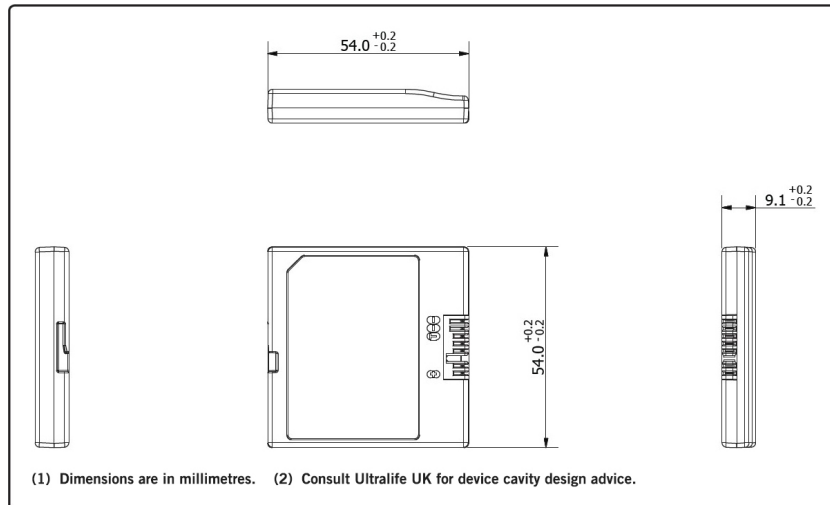
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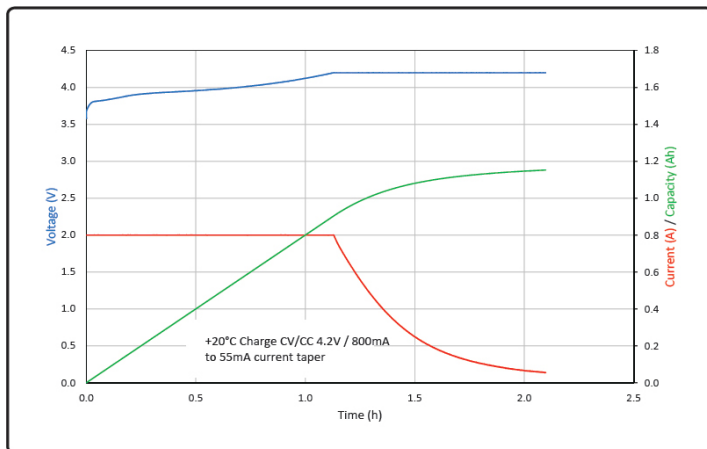
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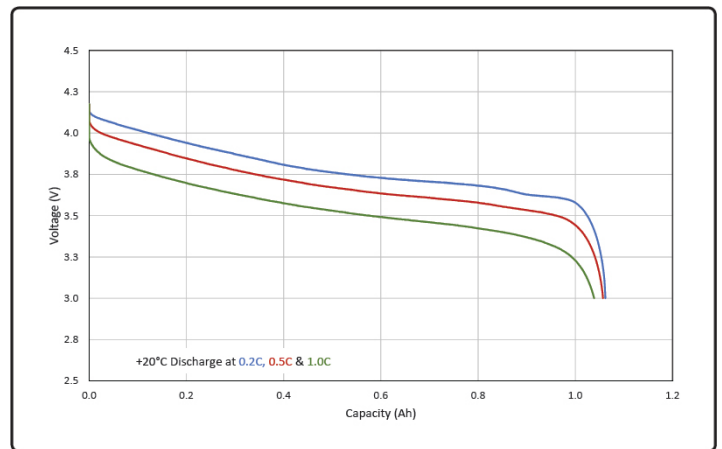
Mechanical Drawing



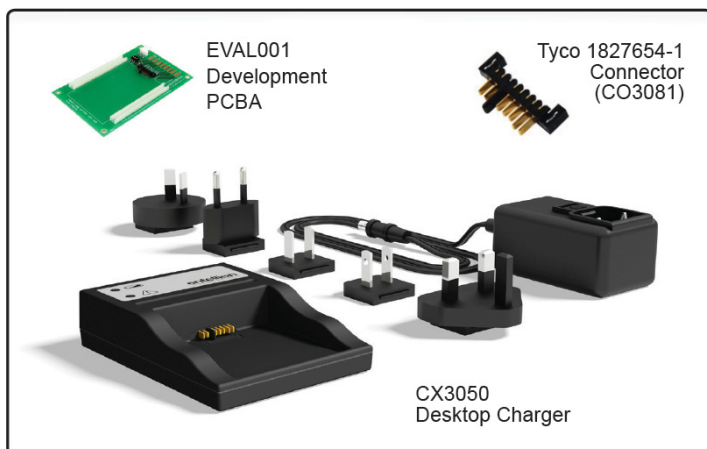
Typical Charge Characteristic



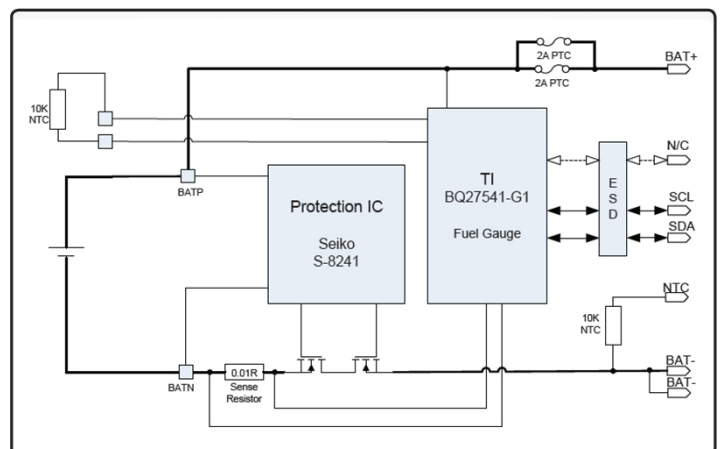
Typical Discharge Characteristic



Accessories



Block Diagram



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