

LMR2016

Rechargeable Lithium Manganese Dioxide Coin Cell 3.0 V

Specifications

Renata Type LMR2016
Part Number 100775 (IB)
Batteries with tabs On request
UL Recognition MH14002

Nominal Voltage 3.0 V
Standard Capacity 30 mAh
(load 5.6 k Ω , cut off 2.0 V at 23°C)

Internal Impedance Initial max. 30 Ω (measured at 23°C, 1 kHz)
After 12 month storage at 23°C max. 35 Ω

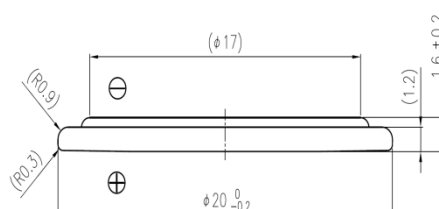
Thickness (T) 1.60 +0.2 / -0.2 mm
Diameter (D) 20.0 +0 / -0.2 mm
Weight ~ 1.2 g

Charging Characteristic CC/CV – Constant Current / Constant Voltage
Voltage (intermittent charging) 3.25 V CV
Voltage (continuous charging) 3.10 V CV
Current Normal 0.3mA
Max. Charging Current 10mA
Temperature at charging - 20 °C - 60 °C

Discharge Characteristic
Cut off Voltage 2.0 V
Max discharge current 8mA (continuous); 20mA (pulse)
Temperature during discharge -20°C - 60°C
Discharge capability \geq 50% of nominal capacity at 8 mA discharge
Cycle life at room temperature > 500 cycles (20 % depth of discharge)

Storage 10°C - 30°C, \leq 60 % r.H. (in case of storage for more than one month)
Self discharge rate <1% / year at 23°C

Dimensions

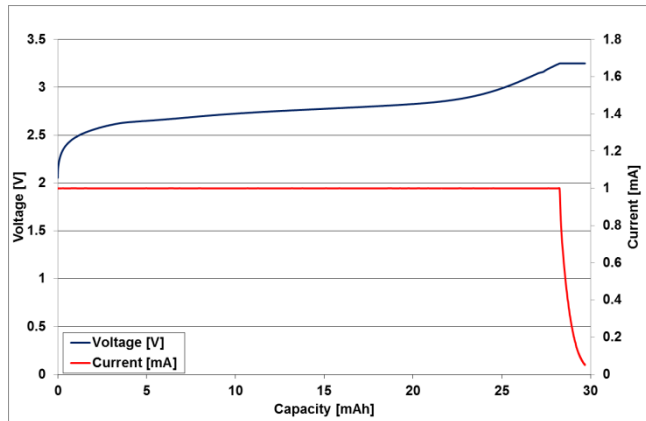


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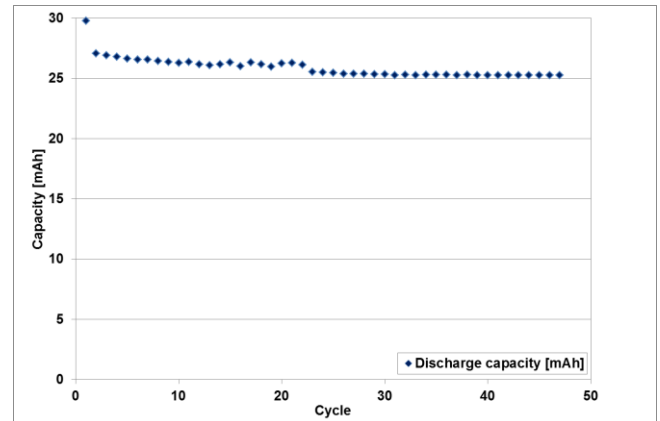
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Typical Battery Performance

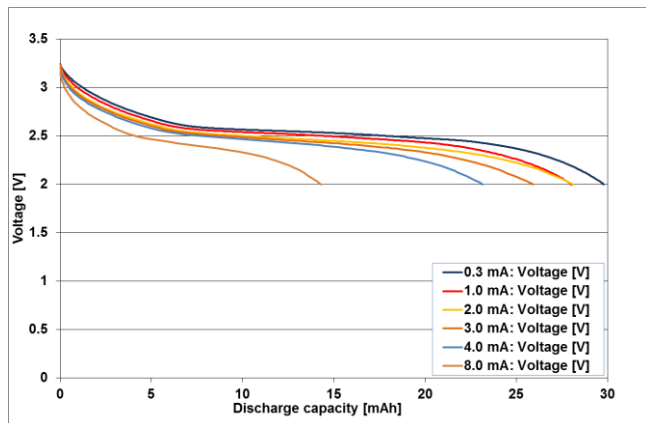
Charge Characteristic at 25 °C



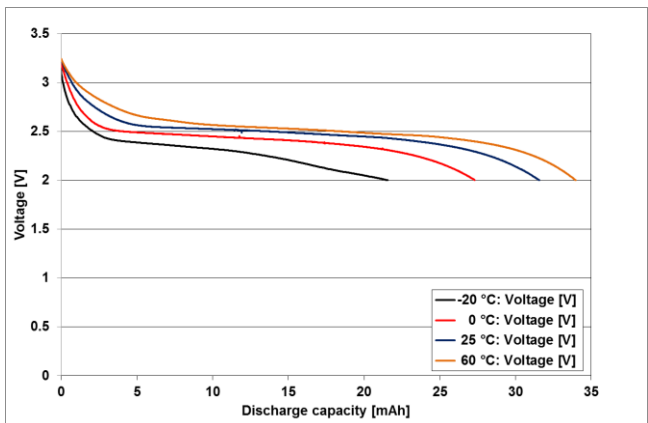
Cycle Life Characteristic



Discharge Characteristic at 25°C



Temperature performance at 0.2 mA



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