

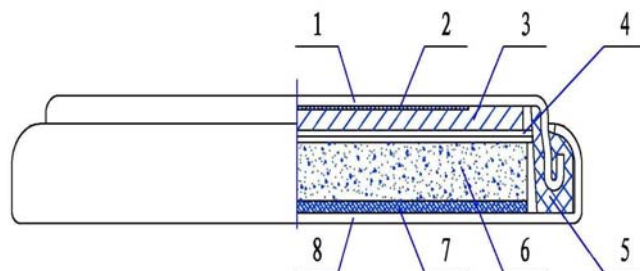
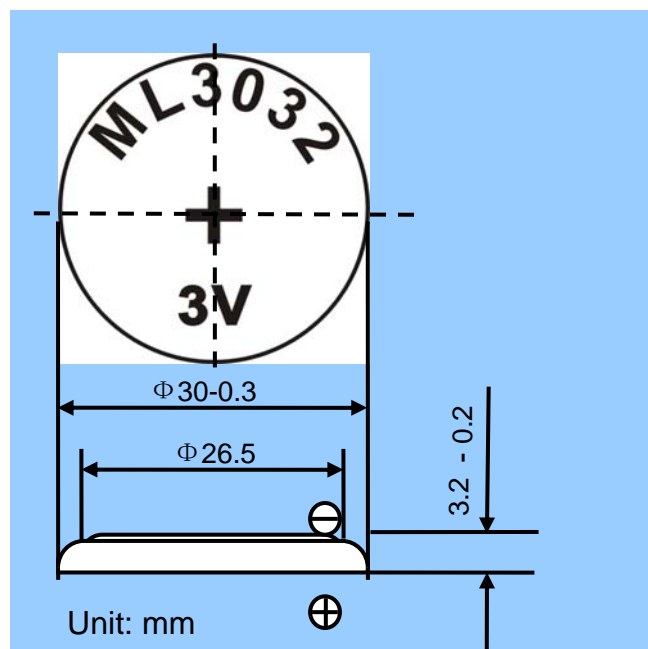
# TELONG ENERGY TECHNOLOGY CO., LTD.

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## ML3032 Lithium Manganese Rechargeable Button Cell

### TECHNICAL DATA



1. Anode shell
2. Anode collector net
3. Anode (slice of lithium)
4. Separator
5. Gasket
6. Cathode(LixMnO<sub>2</sub>)
7. Cathode collector net
8. Cathode shell

ITEM	CHARACTERISTICS	NOTES
Nominal voltage	3.0 V	No load
Nominal capacity	110 mAh	Under normal temperature, discharging at the rate of 0.5 mA to 2.0V.
Charge and discharge current	$\leq 0.5$ mA	Normal temperature.
Cycle life	200~300	Discharge current 0.5mA, in the case of 10% discharge depth, can be recycled 200-300 times .
Charging voltage	3.1 ~3.3 V	Small current charging
Open circuit voltage	$\geq 3.0$ V	No load
Storage temperature	20~25°C	RH: 50±10%
Standard weight	4.6 g	Each cell
Dimension of shape	Diameter: 30.0(-0.3) mm Height: 3.2(-0.2) mm	Using the vernier caliper of the accuracy.
Self-discharge rate	$\leq 5\%$	Stored for 12 months under the condition of normal temperature and humidity.
Appearance	Appearance is level, smooth and clear, no distortion, no rust	Eyeballing
Vibration test	Put the charger on the vibrator and use the 10-15 times per minute frequency to vibrate the charger for one hour, the charger performance is stable.	The charger performance is stable.
Falling test	Put the charger from 2m height to the floor by vertical direction and free direction, after 5 times, the charger performance is stable.	The charger performance is stable.

# TECHNICAL CHARACTERISTICS

## 1. The methods of testing

A: environment and temperature: 20~25°C; the environment humidity of 50±10%.

B: Charge at the rate of the constant current 0.5mA to 3.25V, changing it into the constant current for 60 minutes, keeping it still for 10 minutes; Discharge at the rate of the constant current 0.5mA to 2.0V.

## 2. Caution

- 2.1 Install and use the cells right, avoid short circuit and shun reversing anode and cathode.
- 2.2 Check the cell polarity and the equipment including its conjunction before installing, ensuring the cleanness and conductivity, the equipment should not cause short circuit.
- 2.3 Do not mix the new cells with the old ones, and not mix the different volume, brand, grade, type cells lest affecting characteristics and the possibility of leaking.
- 2.4 The cells should not be heated and collided after being used lest explosion, damage and liquid-leaking.
- 2.5 Don't use too high current to charge and discharge when using the cells, do not overcharge and discharge lest affecting the cycle life of the cells.
- 2.6 To avoid danger, don't put the cells into the fire disassemble the cells.
- 2.7 Taking care of the micro-cells well lest the infants swallow.
- 2.8 Pay attention to the storage expiry of the cells.

## 3. 【SPECIFICATIONS】

<b>Nominal Capacity</b>		<b>110 mAh</b>
<b>Nominal Voltage</b>		<b>3.0 V</b>
<b>Standard Charge/Discharge Current</b>		<b>0.5 mA</b>
<b>Charge/Discharge Cycle Characteristics</b>	<b>Discharging Depth of 10%</b>	<b>300 times</b>
	<b>Discharging Depth of 20%</b>	<b>100 times</b>
<b>Temperature Range</b>		<b>-20~60 °C</b>
<b>Weight</b>		<b>4.6 g</b>
<b>Dimensions</b>	<b>Diameter</b>	<b>30 mm</b>
	<b>Height</b>	<b>3.2<sub>-0.2</sub>mm</b>
	<b>d</b>	<b>26.5 mm</b>