

**Approval Sheet for
Lithium Thionyl Chloride Battery Datasheet**

Model: ER14505

ER14505 Bobbin Type
Product Specification

Specification Approval Sheet

Model: **ER14505 Bobbin Type**

Prepared By/Date	Checked By/Date	Approved By/Date

	Confirmation	Date
Customer Approval		

Note: 1. Kindly please sign on the above and send it back to us if the sample is approved.
2. Kindly please contact us as soon as possible if the sample isn't approved. Thanks!

1. Model ER14505 Bobbin Type

2. Specification

- 1) Nominal voltage 3.6V
- 2) Nominal capacity 2400mAh(1.0mA / 2.0V)

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- | | |
|------------------------------------|--------------------------------------|
| 3) Discharge end-voltage□ | 2.0V |
| 4) Operating voltage□ | 3.4V(330Ω, in 5s) |
| 5) Max constant discharge current□ | 100mA |
| 6□Max. pulse current□ | 200mA |
| 7) Ambient temperature range□ | -55~ +85□ |
| 8) Storage life□ | ≥10 year, Yearly self-discharge ≤ 1% |

3. Appearance & Dimension/Weight

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|--------------------|-----------------|
| 1) Appearance: | Cylinder |
| 2) Max dimension : | φ14.5mm×h50.5mm |
| 3) Max weight: | 19g |

4. Performance Testing

Unless other requests , all tests are carried out in ambient temperature 20±5□.

Tests should be made within 45 days after receipt of the batteries.

Quality Data Inspection

Item	Measuring Procedure	Standard
1.Appearance	Visual check	Clean, unscratched and clearly labeled
2.Dimensions	Measured by calipers with precision of 0.02mm	Max $\varnothing 14.5 \times 50.5 \text{mm}$
3.Weight	Weighed by balance with precision of 0.1g	Max 19g
4.Open-circuit voltage	Measure by volt-meter with precision of 0.01V	$\geq 3.65 \text{V}$
5.Operating voltage	Measure by volt-meter with precision of 0.01V, connecting an impedance of 620Ω in series, Reaching the target voltage in 5 seconds.	$\geq 3.45 \text{V}$
6.Nominal discharge	$620\Omega, 20 \pm 2\%$, Constant discharge to 2.0V.	$\geq 1800 \text{mAh}$
7.Rapid discharge	$220\Omega, 20 \pm 2\%$, Constant discharge to 2.0V..	$\geq 1650 \text{mAh}$
8. Discharge at high temperature	Put battery in constant ambient temperature of $55 \pm 2^\circ \text{C}$ for 16 hours, discharge at 620Ω to 2.0V/cell..	$\geq 1850 \text{mAh}$
9.Discharge at low temperature	Put battery in constant ambient temperature of $-40 \pm 2^\circ \text{C}$ for 16 hours, discharge at $6.8K \Omega$ to 2.0V/cell	$\geq 900 \text{mAh}$
10.Charge	Prohibited	Prohibited
11.Over-discharge	Prohibited	Prohibited
12.Self discharge	Store the batteries at constant temperature of $20 \pm 5^\circ \text{C}$, Measure the nominal capacity yearly for 10 years.	$\leq 1\%$

SPECIFICATION

Model: ER14505

Thionyl Chloride Lithium Battery

● **Characteristics:**

- ▲ Nominal capacity (1mA to 2.0V)2.4Ah
- ▲ Nominal voltage 3.6V
- ▲ Max. Continuous Current100mA
- ▲ Max. Pulse current 200mA
- ▲ Weight 19g
- ▲ Dimension $\phi 14.5 \times 50.5$ mm
- ▲ Operating temperature range -55°C~+85°C

● **Terminals available:**

- AX axial leads
- T welding pins
- P plastic plug

● **Special design is acceptable**

- ◆ Data above is for reference
- ◆ Additional COST for the latest technology
Able to avoid passivation is welcome.



Li-SOCl₂ AA

● **Characteristic curves**

