TLM-1530M



High Power Primary Li Metal Oxide Cell - Military Grade

Electrical characteristics

(for batteries stored at RT for 1 year or less)

Open circuit voltage 3.95 to 4.07 V
Closed circuit voltage 3.83 V min.
(at 0.1 sec on 0.5 A load)
Discharge capacity under 20 mA 200 mAh
(at RT to 2.8 V)
Discharge capacity under 225 mA 190 mAh
(at RT to 2.8 V)

Mechanical characteristics

Length	27.4 +0/-1 mm
Diameter	$14.8 \pm 0.3 \text{ mm}$
Weight	11 g max.

Operating conditions

Maximum discharge current:

Continuous to 2.5 V 2.5 A Pulse, 1 sec, to 2.6 V 6.5 A Operating temperature range -40 °C \div +85 °C Storage temperature range -55 °C \div +85 °C Cell impedance at RT < 175 m Ω at 1 kHz

Accumulated capacity loss (when tested at RT @ 20 mA to 2.8 V)

	Storage Temperature			
Storage Time (years)	22 °C	55 °C	72 °C	85 °C
1	3 %	6 %	10 %	N/A
5	7 %	22 %	40 %	N/A
10	11 %	32 %	N/A	N/A
15	15 %	42 %	N/A	N/A
20	18 %	N/A	N/A	N/A

Environmental Compliance with military specification

Vibration	MIL-STD 810G	Method 514.6
Shock	MIL-STD 810G	Method 516.6
Temperature Shock	MIL-STD 810G	Method 503.5
Salt fog	MIL-STD 810G	Method 509.5
Altitude	MIL-STD 810G	Method 500.5
Acceleration	$50,000 g_{\rm n}$	
Spinning	30,000 rpm	

Safety Tested according to:

Short circuit at RT and at +55 °C	UN, IEC
Oven at +150 °C	UL, IEC
Nail penetration	N/A
Over-charge & over-discharge (200 % at currents up to 1 A)	UL, UN, IEC
Impact	UL, UN, IEC
Crush	UL IEC

UN Manual of Tests and Criteria, UL 1642, IEC 60086

WARNING:

WARNING: Fire, Explosion, And Severe Burn Hazard. Do Not Recharge, Crush, Disassemble, Heat Above 100°C, Incinerate Or Short Circuit. Technology

Anode: Carbon based
Cathode: Multi metal oxides

Electrolyte: OrganicShut down separator

Key Features

High power 4 V cell

Hermetically sealed (glass-to-metal)Wide operating temperature range

Low self discharge

Long storage life

High g_n survivability

High homogeneity

End of life indication capability

High reliability
Lightweight

Lightweight

Safe design

Assembled in custom packs (per request)

Main Applications

Ordnance fuzing power source

Navigation systems

Missile systems

■ Telemetry

Emergency systems

Electronic warfare systems

Ordering Part No.

-101-	TLM-1530M/S	72143622000
-101-	TLM-1530M/T	72143622150
-101-	TLM-1530M/TP	72143632000
-ф-	TLM-1530M/PT2	72143635000

www.tadiranbatteries.com

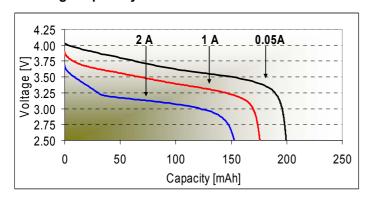
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TLM-1530M

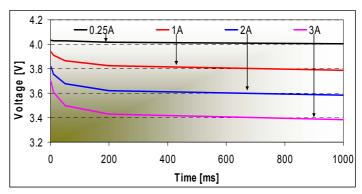


Performance data

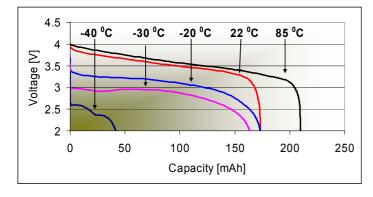
Discharge capability at RT



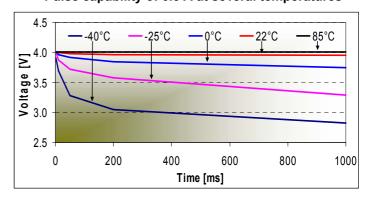
Pulse capability at RT



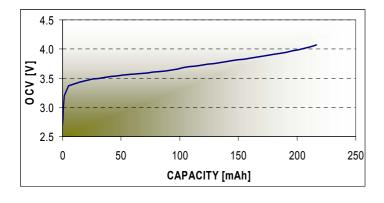
Discharge capability of 0.5 A at several temperatures



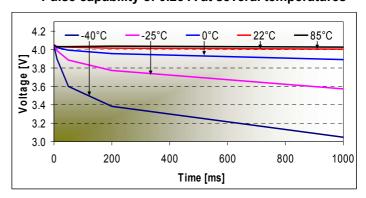
Pulse capability of 0.5 A at several temperatures



Capacity vs. OCV



Pulse capability of 0.25 A at several temperatures

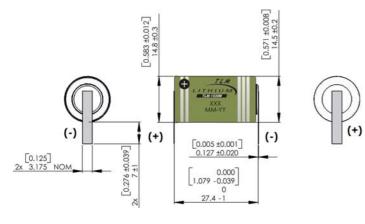


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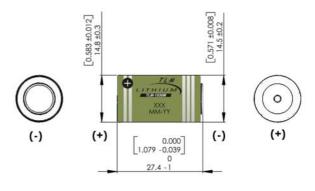


Lead terminations

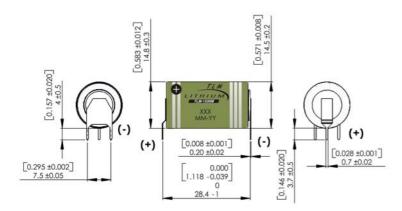
TLM-1530M /T (Soldering Tabs) Cat. # 72143622150



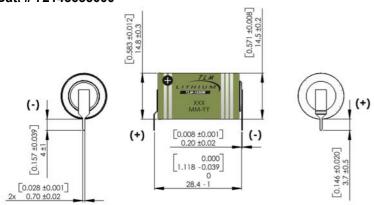
TLM-1530M/S (Used in battery packs only) Cat. # 72143622000



TLM-1530M/TP (PCB Mountable - Polarized) Cat. # 72143632000



TLM-1530M/PT2 (PCB Mountable) Cat. # 72143635000



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