TLM-1550M



High Power Primary Li Metal Oxide Cell - Military Grade

Electrical characteristics (for batteries stored at RT for 1 year or less Open circuit voltage Closed circuit voltage (at 0.1 sec on 0.5 A load) Discharge capacity under 20 mA (at RT to 2.8 V) Discharge capacity under 500 mA (at RT to 2.8 V)	s) 3.95 to 4.07 V 3.88 V min. 470 mAh 425 mAh	
Mechanical characteristics		
Length (without PTC) Diameter Weight Operating conditions	51.0 +0/-1 mm 14.8 ± 0.3 mm 20 g max.	 Technology Anode: Carbon based Cathode: Multi metal oxides Electrolyte: Organic Shut down separator
Maximum discharge current: Continuous to 2.5 V Pulse, 1 sec, to 2.6 V Operating temperature range Storage temperature range Cell impedance at RT	4.3 A 15 A -40 °C ÷ +85 °C -55 °C ÷ +85 °C < 100 mΩ at 1 kHz	 Key Features High power 4 V cell Hermetically sealed (glass-to-metal) Wide operating temperature range Low self discharge Long storage life
Accumulated capacity loss (when tested at RT @ 20 mA to 2.8 V) Storage Time (years) 1 5 10 15 20	Storage Temperature 22 °C 55 °C 72 °C 85 °C 3 % 6 % 10 % N/A 7 % 22 % 40 % N/A 11 % 32 % N/A N/A 15 % 42 % N/A N/A 18 % N/A N/A N/A	 High g_n survivability High homogeneity End of life indication capability High reliability Lightweight Safe design Assembled in custom packs (per request)
Environmental Compliance	e with military specification	Main Applications
VibrationMIL-STD 810GShockMIL-STD 810GTemperature ShockMIL-STD 810GSalt fogMIL-STD 810GAltitudeMIL-STD 810GAcceleration50,000 gnSpinning30,000 rpm	Method 516.6 Method 503.5 Method 509.5	 Ordnance fuzing power source Navigation systems Missile systems Telemetry Emergency systems Electronic warfare systems
Safety	Tested according to:	 Ordering Part No. TLM-1550M/S 72145622000
Short circuit at RT and at +55 °C Oven at +150 °C Nail penetration Over-charge & over-discharge (200 % at curre Impact Crush UN Manual of Tests and Criteria, UL 1642, IEC 60086	UN, IEC UL, IEC N/A	TLM-1550M/Z2/T* 72145622200 TLM-1550M/Z2/TP* 72145632200 TLM-1550M/Z2/TP* 72145632200 TLM-1550M/Z2/PT2* 72145632200 TLM-1550M/Z2/PT2* 72145635200 *Z2 indicates cells with a re-settable fuse (PTC)

WARNING:

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

www.tadiranbatteries.com

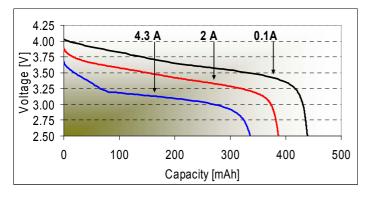
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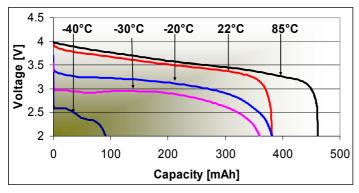


Performance data

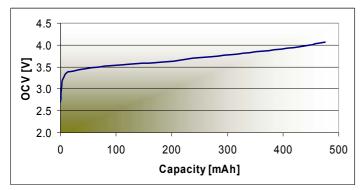
Discharge capability at RT



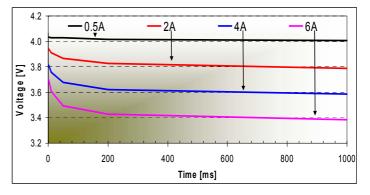
Discharge capability of 1 A at several temperatures

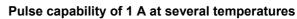


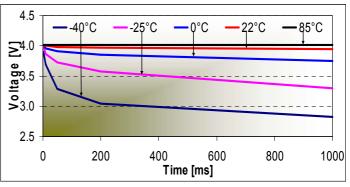
Capacity vs. OCV

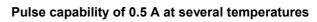


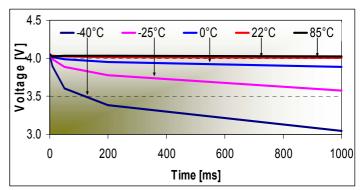
Pulse capability at RT











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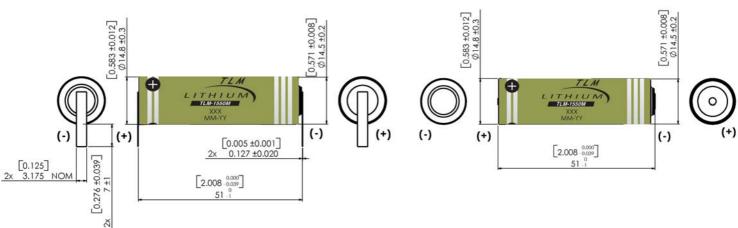


TLM-1550M/S (Used in battery packs only)

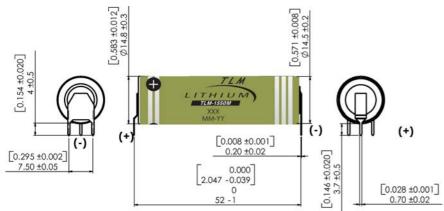
Cat. # 72145622000

Lead terminations

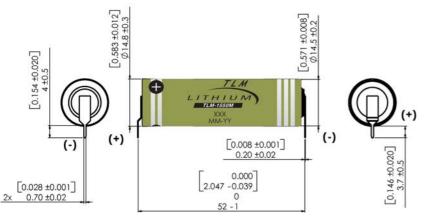
TLM-1550M/Z2/T (Soldering Tabs) Cat. # 72145622200



TLM-1550M/Z2/TP (PCB Mountable - Polarized) Cat. # 72145632200



TLM-1550M/Z2/PT2 (PCB Mountable) Cat. # 72145635200



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