TLM-1520M



High Power Primary Li Metal Oxide Cell - Military Grade

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Electrical characteristics

(for batteries stored at R)					
Open circuit voltage Closed circuit voltage (at 0.1 sec on 0.25 A load)		3.95 to 4.07 V 3.78 V min.					
Discharge capacity under 12 mA (at RT to 2.8 V)		120 mAh					
Discharge capacity unde (at RT to 2.8 V)	er 125 mA		105 mAh				
Mechanical characteris	stics			·	ha e le su c		
Length Diameter Weight		20.0 +0/-1 mm 14.8 ± 0.3 mm 9 g max.		0 4	Technology Anode: Carbon based Cathode: Multi metal oxides Electrolyte: Organic		
Operating conditions				ф.	Shut down separator		
Maximum discharge curr	rent:						
Continuous to 2.5 V		1 A		中	Key Features		
Pulse, 1 sec, to 2.6 V		3.5 A		<u>ቀ</u>	5 1		
Operating temperature range		-40 °C ÷ +85 °C		¢.			
Storage temperature range		-55 °C ÷ +85 °C		中			
Cell impedance at RT		< 250	0 mΩ at 1 kHz	-ψ-	Long storage life		
Accumulated capacity		Storage Temperature		ц	High g_n survivability		
loss (when tested at RT	Storage Time			- ф -	High homogeneity		
@ 12 mA to 2.8 V)	(years) 1	22 °C 55 °C 3 % 6 %	72 °C 85 °C 10 % N/A	ф.	End of life indication	capability	
	5	7 % 22 %	40 % N/A	- ¢ -	High reliability	1 5	
	10	11 % 32 %	N/A N/A	ц.	Lightweight		
	15	15 % 42 %	N/A N/A	- -	Safe design		
	20	18 % N/A	N/A N/A	- Hit	Assembled in custom	n packs (per reque	
Environmental		with military	-	•	Main Applications		
Vibration	MIL-STD 810G			-0-			
Shock	MIL-STD 810G	Method 516.6		÷	51		
Temperature Shock	MIL-STD 810G	Method 503.5		ф.	Missile systems Telemetry		
Salt fog	MIL-STD 810G	Method 509.5		- ¢ -			
Altitude	MIL-STD 810G	Method 500.5		ц.			
Acceleration	50,000 g _n			- ф -	Electronic warfare sy	stems	
Spinning	30,000 rpm				,		
Safety		Tested	according to:	- -	Ordering Part No.		
Short circuit at RT and a Oven at +150 °C Nail penetration Over-charge & over-disc	nts up to 0.5 A)	UN, IEC UL, IEC N/A up to 0.5 A) UL, UN, IEC		TLM-1520M/S TLM-1520M/T TLM-1520M/TP TLM-1520M/PT2	72142622000 72142622150 72142632000 72142635000		
Impact Crush			UL, UN, IEC UL, IEC				

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

www.tadiranbatteries.com

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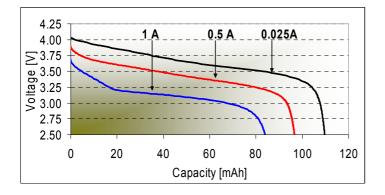
WARNING: Fire, Explosion, And Severe Burn Hazard. Do Not Recharge, Crush, Disassemble, Heat Above 100°C, Incinerate Or Short Circuit.

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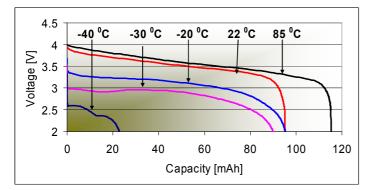


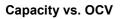
Performance data

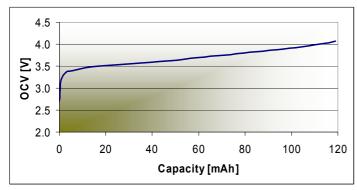
Discharge capability at RT



Discharge capability of 0.25 A at several temperatures

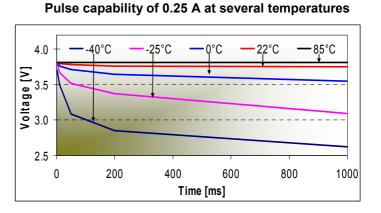


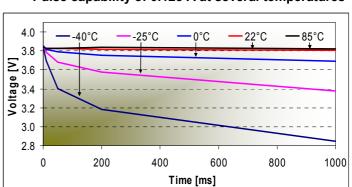




4.2 -0.1A 0.5A 1A 1.5A 4.0 3.8 Voltage [V] 3.6 3.4 3.2 3.0 400 200 0 600 800 1000 Time [ms]

Pulse capability at RT





Pulse capability of 0.125 A at several temperatures

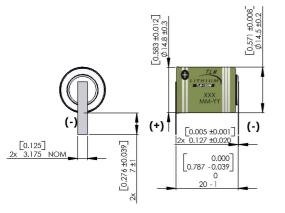
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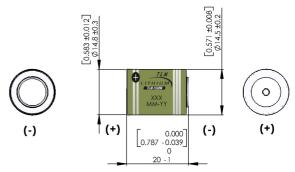
Lead terminations

TLM-1520M/T (Soldering Tabs) Cat. # 72142622150

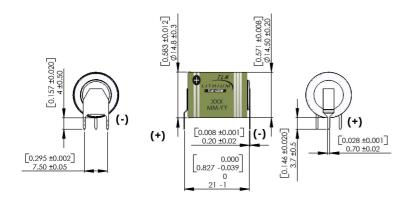


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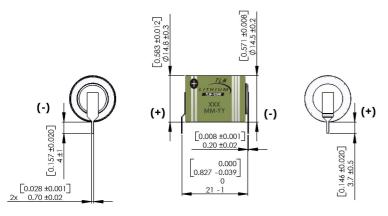
TLM-1520M/S (Standard Contact) Cat. # 72142622000



TLM-1520M/TP (PCB Mountable - Polarized) Cat. # 72142632000



TLM-1520M/PT2 (PCB Mountable) Cat. # 72142635000



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