

Technical Data Coin-type Manganese Dioxide Lithium Battery

Type: CR2450

Made in China

2020/04/21

TOSHIBA LIFESTYLE PRODUCTS & SERVICES CORPORATION

Ratings

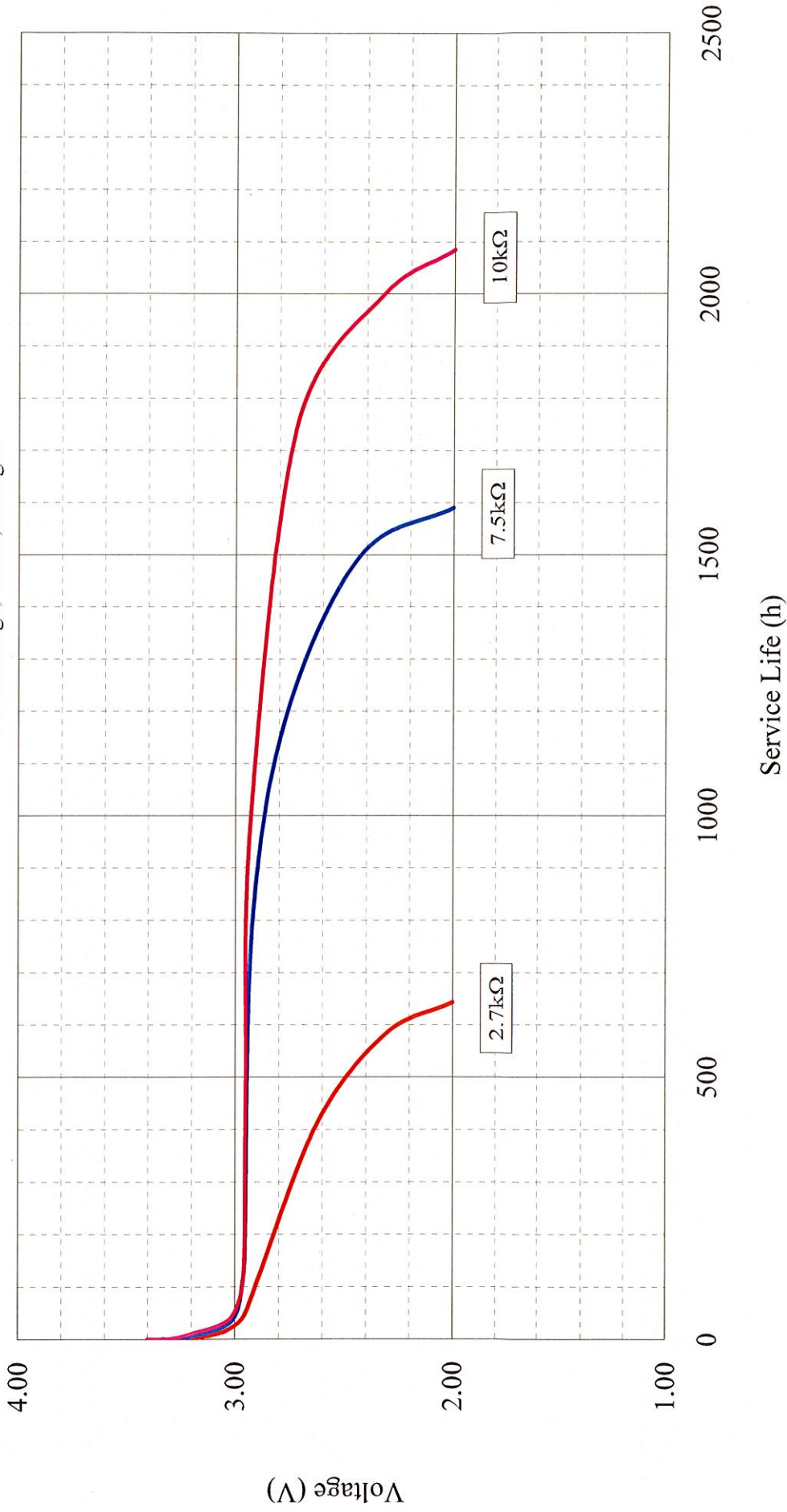
Item	Battery system	Coin-type Manganese Dioxide Lithium Battery
Battery type	CR2450	
Nominal Voltage	3.0V	
Standard Capacity [Condition]	620 mAh [on continuous discharge under 7.5kΩ load to 2.0V end-point at 20deg.C]	
Terminals	Cap Terminals	SUS + Ni plate
	Base Terminals	SUS + Ni plate
Outer dimensions	Diameter	φ24.5(0/-0.2)mm
	Overall height	5.0(0/-0.3)mm
Usable temperature range		-20 ~ 65deg.C
Storage temperature range		

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CR2450 Discharge Characteristics

Test condition : cotinuous discharge, Initial, 20deg.C

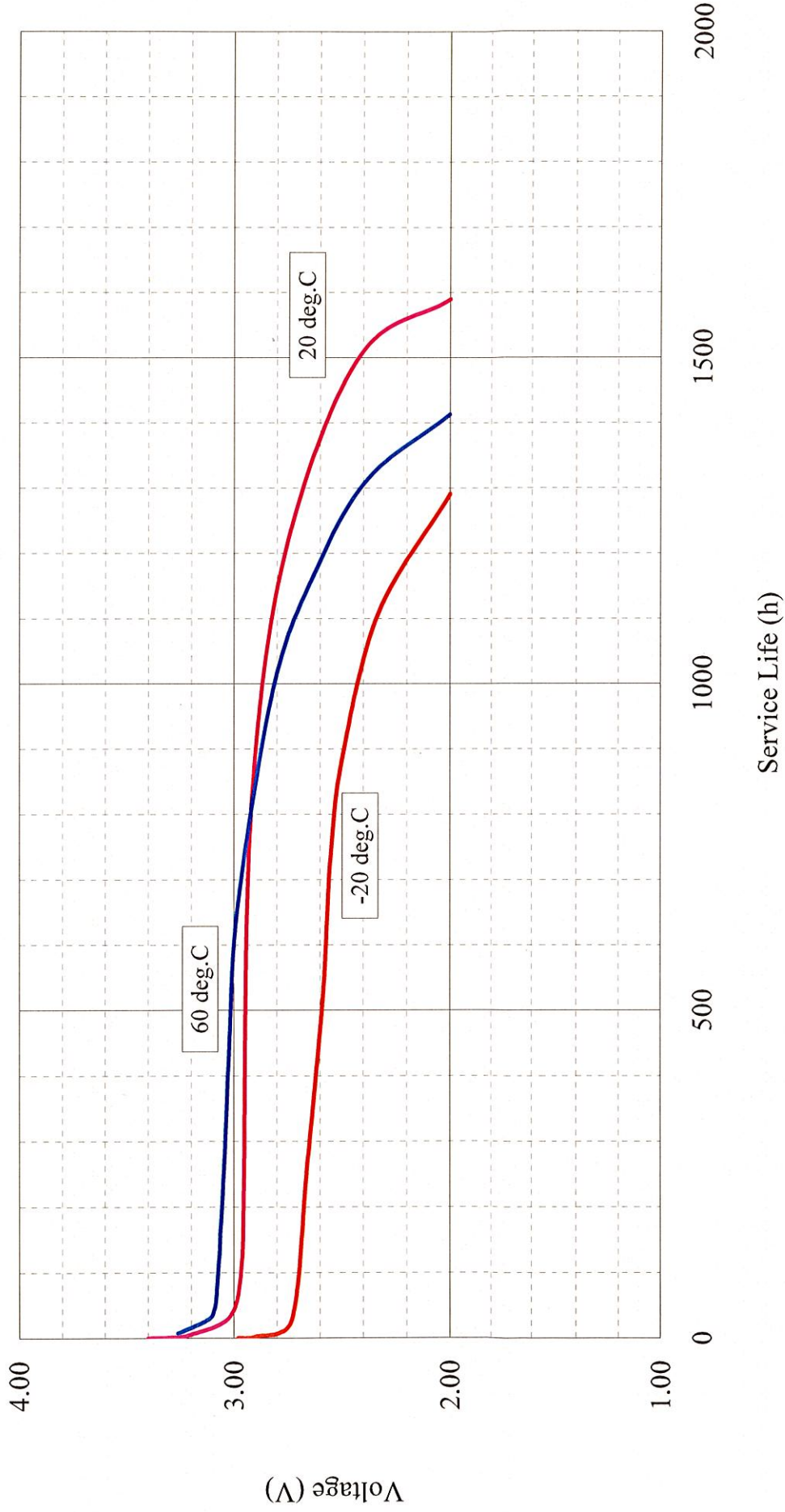


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CR2450 Discharge Characteristics

Test condition: 7.5k Ω continuous discharge, Initial

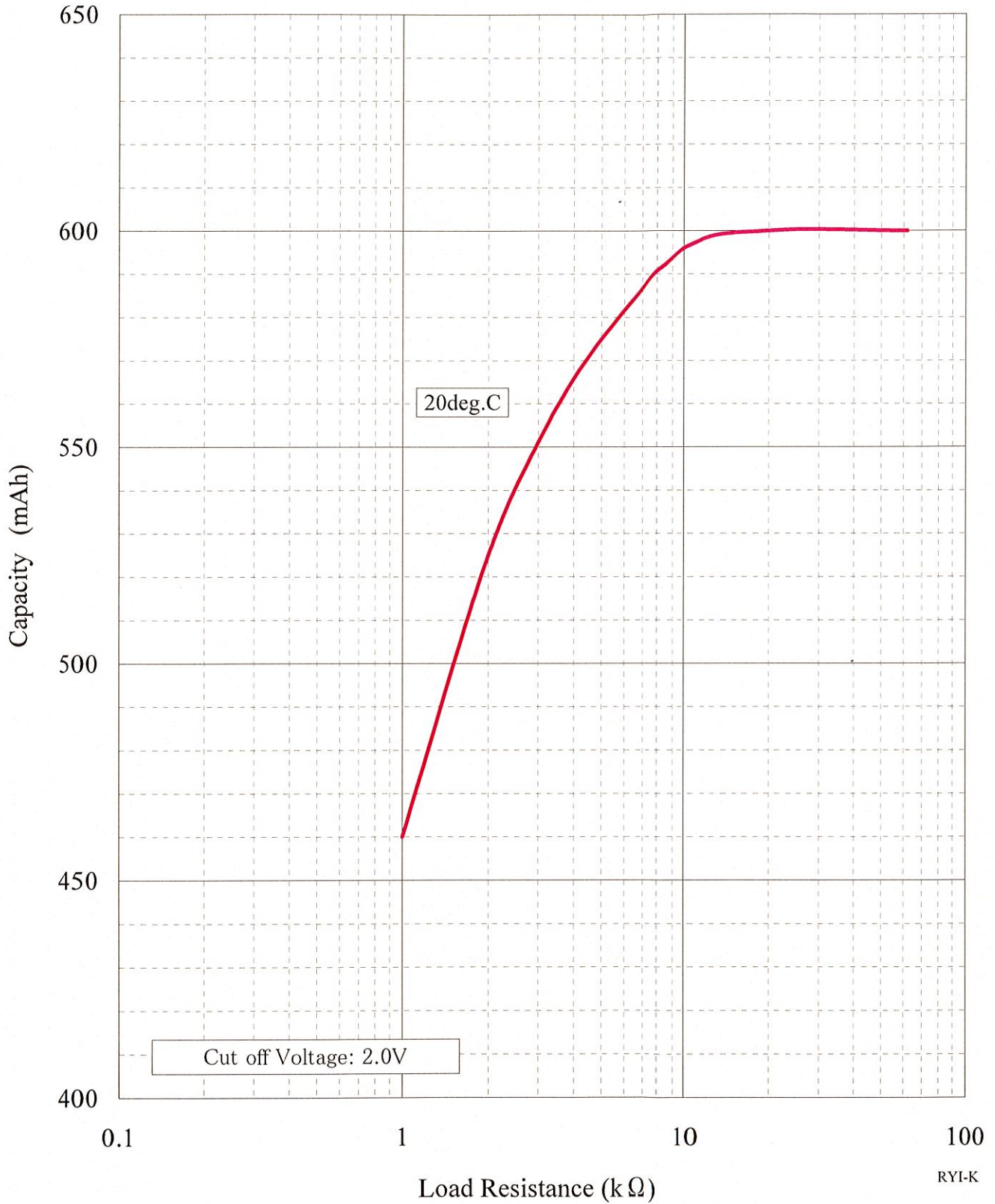


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CR2450 Load Resistance vs Capacity

Test condition : Initial, 20deg.C



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CR2450 Safety Evaluation Test

	n	Conditions	Requirements
Vibration test	5	Amplitude: 1.0mm Frequency: 10 to 55 to 10Hz Sweep: 1minute Period: 2h per each direction of X and Y axes, 4h in total	Open-circuit voltage is to be kept same as initial value. No abnormal appearance and no substandard dimensions are to be observed.
Weighing test	5	Weight of 19.8N(2kgf) is laid for 1 hour and 9.8N(1kgf) for 24 hours respectively on all over negative side of cells.	Open-circuit voltage is to be kept same as initial value. No abnormal appearance and no substandard dimensions are to be observed.
Drop test	5	Number of drops: 10 times Height: 75cm Floor: Concrete Direction: Free	Open-circuit voltage is to be kept same as initial value. No abnormal appearance and no substandard dimensions are to be observed.
Heat test	5	Cells are kept stored for 24hrs. Temperature: 80+/-2deg.C Humidity: 70%RH or less.	Open-circuit voltage is to be kept same as initial value. No abnormal appearance and no substandard dimensions are to be observed.
Temperature cycle	5	Temperature: -10deg.C ⇄ 60deg.C (4h/Cycle, 6cycle/day, 20Day)	Open-circuit voltage is to be kept same as initial value. No abnormal appearance and no substandard dimensions are to be observed.
Short-circuit test	5	Cells are Short-circuited for 48 hours.	No burst, No fire

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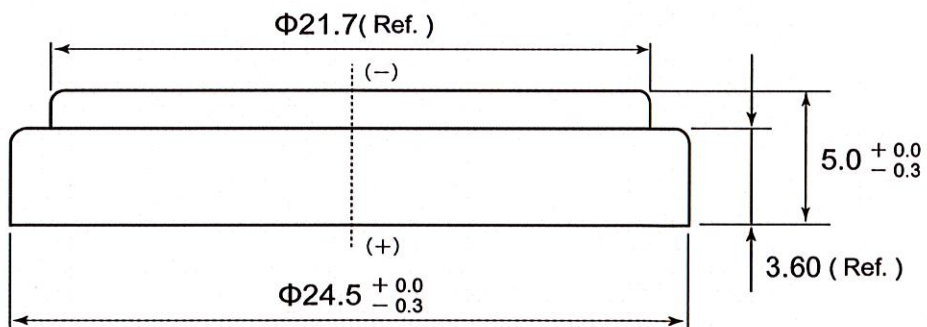
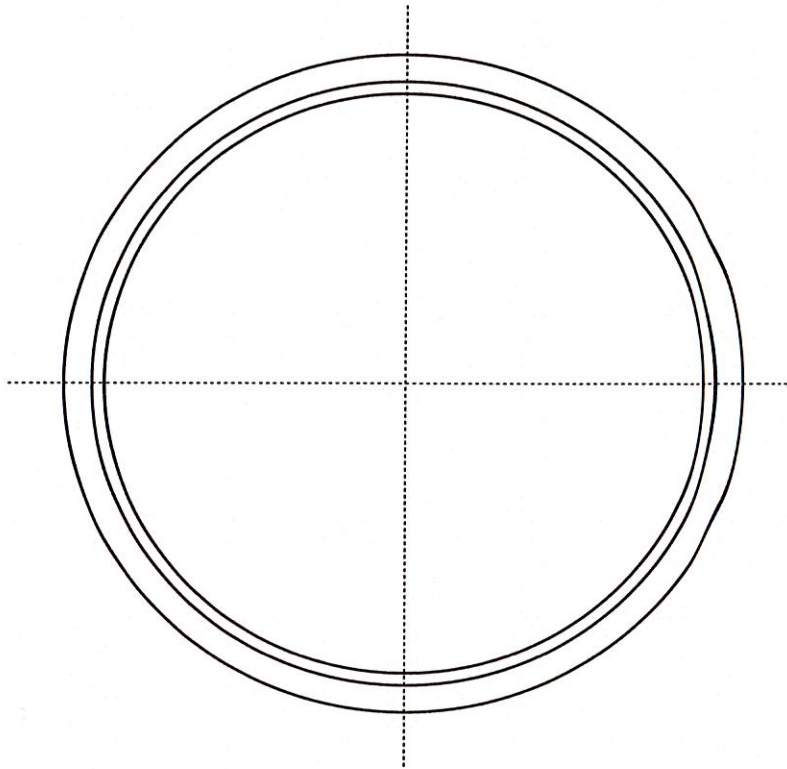
CR2450 Leakage Performance

Test items		Electrolyte Leakage (%)			
		20days	40days	60days	90days
Test condition	Storage period				
	Storage at high temperature and high humidity	45deg.C-70%RH	0	0	0
Temperature cycle		60deg.C-90%RH	0	-	-
	Temperature: -10deg.C ⇄ 60deg.C (4h/Cycle, 6cycle/day, 20Day)		0	-	-

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CR2450 Outline Drawing



Unit: mm

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