

Technical Data Coin-type Manganese Dioxide Lithium Battery

Type: CR1616

Made in China

2020/04/21

TOSHIBA LIFESTYLE PRODUCTS & SERVICES CORPORATION



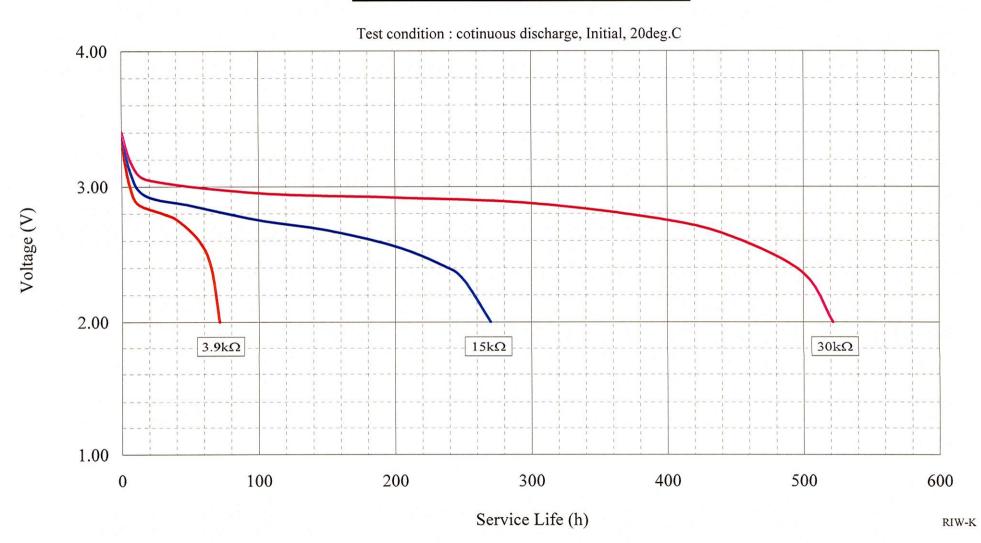
Ratings

Item	Battery system	Coin-type Manganese Dioxide Lithium Battery			
Battery type		CR1616			
Nominal Voltage		3.0V			
Standard Capacity [Condition]		50 mAh [on continuous discharge under 30k Ω load to 2.0V end-point at 20deg.C]			
T . I	Cap Terminals	SUS + Ni plate			
Terminals	Base Terminals	SUS + Ni plate			
Outer dimensions	Diameter	\$16.0(0/-0.3)mm			
	Overall height	1.6(0/-0.2)mm			
Usable temperature range		-20 ~ 65deg.C			
Storage temperature range					

This is only for reference.(not guaranteed.) This information contained herein may be changed without prior notice.



CR1616 Discharge Characteristics

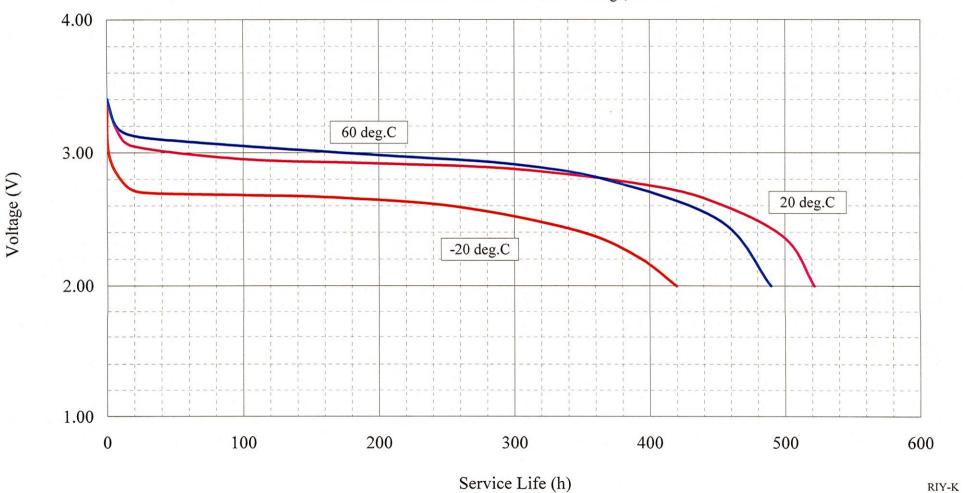


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CR1616 Discharge Characteristics

Test condition: $30k\Omega$ continuous discharge, Initial

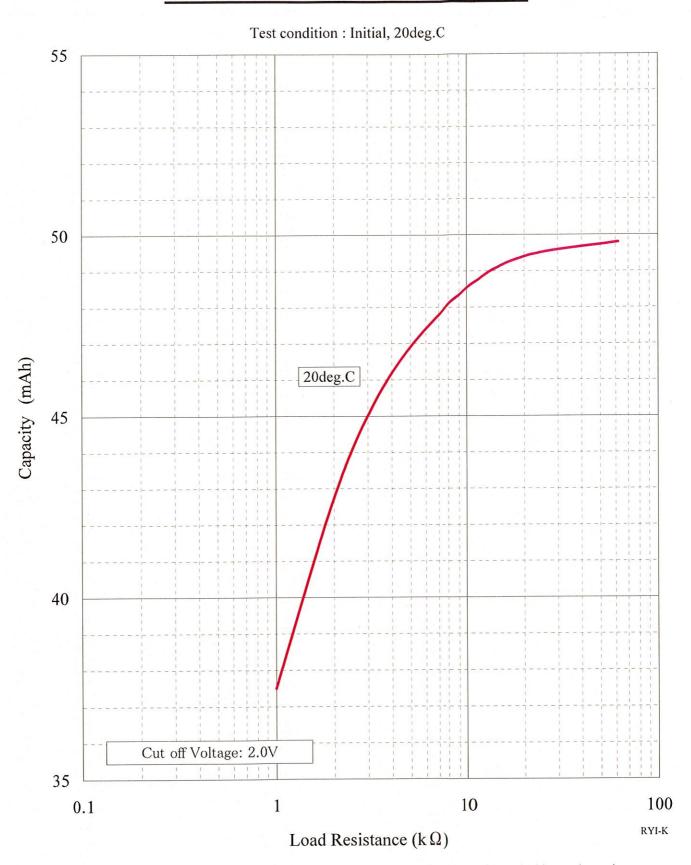


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CR1616 Load Resistance vs Capacity



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CR1616 Safety Evaluation Test

	n Conditions		Requirements		
Vibration test	on test 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.		Cells are Short-circuited for 48 hours.	No burst, No fire		

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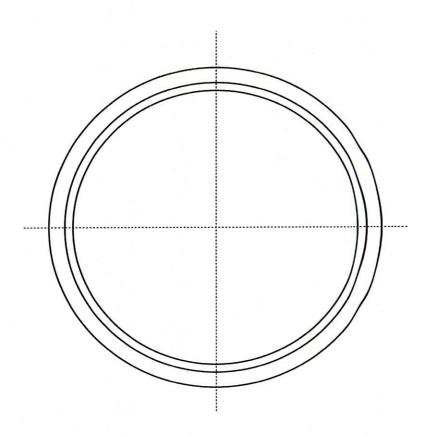
CR1616 Leakage Performance

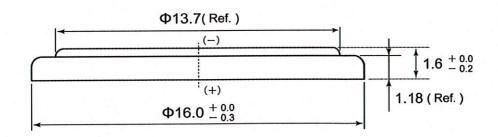
	Test items	Electrolyte Leakage (%)			
Test condition	Storage period	20days	40days	60days	90days
Storage at high temperature	45deg.C-70%RH	0	0	0	0
and high humidity	60deg.C-90%RH	0	0		-
Temperature cycle	Temperature: -10deg.C ⇔ 60deg.C (4h/Cycle, 6cycle/day,20Day)	0	-	-	-

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CR1616 Outline Drawing





Unit: mm

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