

Power-Xtra CR1220-1HFYV - 3V Lithium Li-MnO₂ Battery - 2 Pins - Horizontal

SPECIFICATIONS OF SINGLE CELL

Type	Li-MnO ₂ Buton
Stock Code	900.600.503.098
Model	CR1220, CR-1220

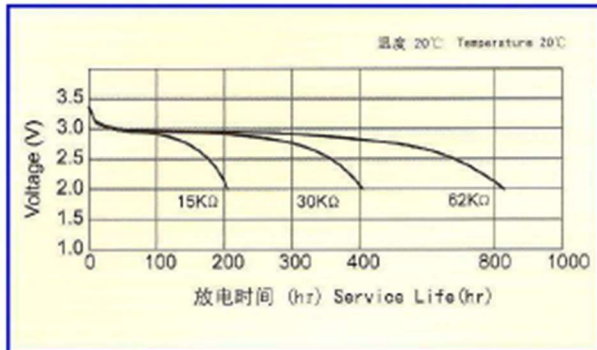
TECHNICAL INFORMATION

Item	Specifications	Conditions
Nominal Voltage	3.0V	
Typical Capacity	40 mAh	Standard discharge with load 62k Ω
Instantaneous short-circuit current	≥ 100 mA	Time ≤ 0.5 second
Off-load voltage	≥ 3.20 V	No load
Service Output - Initial	965 h	Continuous discharge with load 62k Ω , till 2.0v end-voltage at 20~25°C
Service Output - After 12 months storage	905 h	
Typical Weight	0.7 gr	
Recommended Storage Temperature Range	20+/-2°C	5years after delivery under proper storage conditions.
Recommended Operation Temperature Range	-20° C to 60°C	
Self-discharge rate	$\leq 1\%$	Stored for 12 months at normal temperature and humidity
Shelf Life	3-5 Years	Recommended Storage Range : 20+/-2°C Recommended Humidity Range : 65+/-20%RH

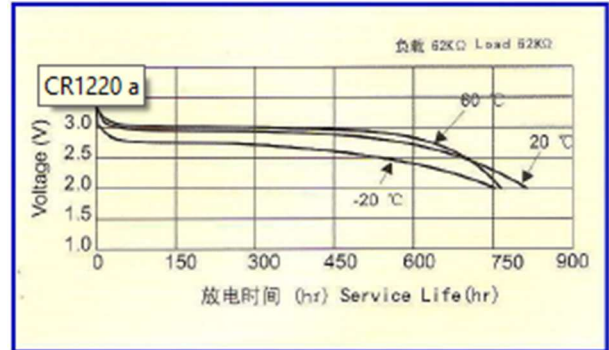
Item	Test Methods	STANDARD	
Dimension	Using vernier caliper (accuracy ≥ 0.02) while avoiding short-circuit	Diameter	12.5 (-0.20) mm
		Height	2.0 (± 0.1) mm
Off-load voltage	Using multimeter (accuracy $\geq 0.25\%$) internal resistance $\geq 1M\Omega$	≥ 3.20 v	
Instantaneous short-circuit current	Time of short-circuit should be less than 0.5 second and avoid repeated test within half an hour	≥ 100 mA	
Appearance	Eyeballing	Bright, clean, no rust, no leakage, And no flaw	
Capacity	Continuously discharge with load 7.5k Ω , temperature at 20~25°C, humidity at 65 $\pm 20\%$ till 2.0v end-voltage (for fresh battery only: within 3 months)	≥ 965 h	
Vibration test	Put battery on the platform of the vibrations machine, start the machine and adjust the frequency form 10 times per minute to 15 times per minute. keep it running for an hour	Characteristics keep stability	
Leakage at high temperature test	Stored under temperature (50°C) for 10 days	No leakage allowed	
Over discharge Test	After 2.0v end-voltage, continuously discharged for 5 hours	No leakage allowed	

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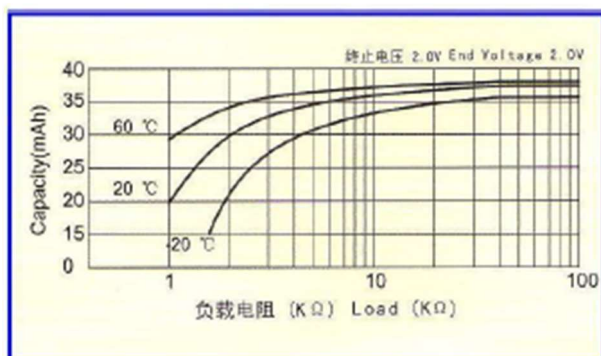
Discharge Characteristics



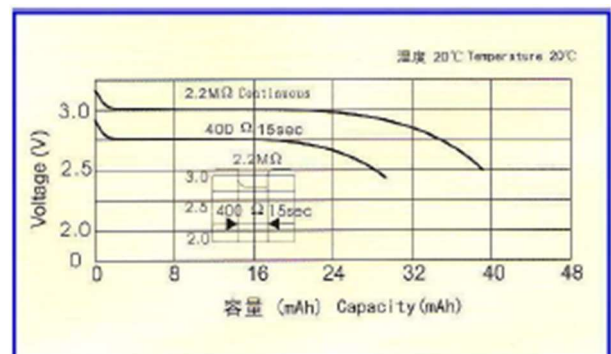
Temperature Characteristics



Load Capacity



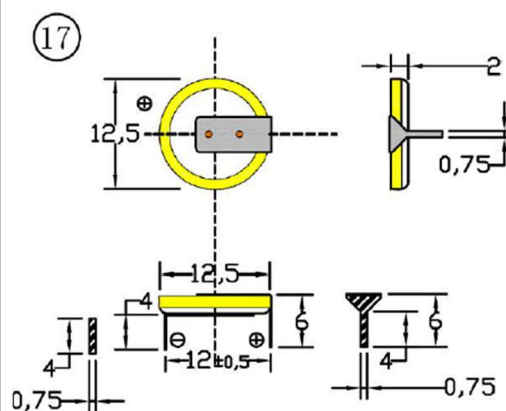
Pulse Discharge Characteristics



Image



Technical Drawing



STANDARD

Diameter 12.5 (-0.2) mm

Height 2.0 (±0.1) mm