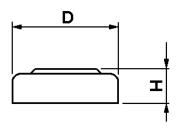


Specification of ML621

Coin Type Rechargeable Lithium Battery (ML-Series)

Nominal Voltage		3 V	
Nominal Capacity		5.0 mAh	Nominal capacity is determined to an end voltage of 2.0V when the battery is allowed to discharge at a standard current level at 23°C
Standard Charge/ Discharge Current		0.015 mA	
Max. Discharge Current		0.3 mA	Current value is determined so that 50% of the nominal capacity is obtained with an end voltage of 2.0V at 23°C
End Voltage		2.0 V	
Charge/Discharge Cycle		3000 cycles (discharge depth of 5%)	
Characteristics		300 cycles	(discharge depth of 20%)
Charging Method (Constant Voltage Charge)		3.1±0.15V	
		2.95±0.15V	Charge at high temperature or continuously
Weight		0.23 g	
Dimensions	Height	2.1 mm	
	Diameter	6.8 mm	

Dimensions



Size without shrinktube:

D = 6.8 max H = 2.1 max(unit: mm)

Can material:

Negative cap: stainless steel Positive can: stainless steel

Battery material:

Cathode: Manganese dioxide

Anode: Li-Al alloy

Electrolyte: Organic electrolyte

Chemical reaction:

Anode reaction: $(\text{Li-Al}) \iff \text{Al} + \text{Li}^+ + \text{e}^-$

Cathode reaction: $\dot{M}n^{IV}\dot{O}_2 + Li^+ + e^- <=> Mn^{III}O_2 (Li^+)$ Overall battery reaction: $\dot{M}n^{IV}O_2 + (Li-AI) <=> Mn^{III}O_2 (Li^+) + AI$