

#### **Product Search Data Sheet**

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Please download the latest datasheet of UMAL201421A012TA01 from the official website of Murata

# UMAL201421A012TA01



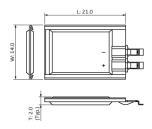






## Appearance & Shape







### **Packaging Information**

Packaging	Specifications	Standard Packing Quantity
Т	Вох	500



### **Features**

Murata has developed a miniature device with a high energy storage capacity, low ESR, fast charging and discharging and the ability to withstand load fluctuations. It may be used as a secondary battery in the same way as a capacitor. This energy device achieves better charge/discharge characteristics and has an extended service life superior to conventional batteries. Well suited as a power supply for wearable devices or sensor nodes for wireless sensor networks, this device maintains flat voltage characteristics while accommodating a wide range of load characteristics.

- 1. High-rate charge/discharge\* Max. charge/discharge rate (current): 10 C (120 mA)
- 2. High safety

The highly safe design: Thermal runaway does not occur because of its small capacity and the use of chemically stable materials.

3. Extended service cycle life

Charge (capacity) recovery rate of 90% or higher after 5,000

\*High-rate charge/discharge characteristics: The current rate at which the battery capacity is charged or discharged in one hour is defined as 1 C. As a description of battery performance, "high-rate charge/discharge characteristics" means that a large current relative to 1 C can be charged or discharged.

1 of 3

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Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering





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# UMAL201421A012TA01



# **Specifications**

Nominal Voltage	2.3V
Charge Voltage	2.7V
Cut-off Voltage	1.8V
Nominal Capacity	12mAh
Max. Discharge Current	120mA(10C)
ESR	200mΩ
Operating Temperature Range	-20°C to 70°C
Size	21mm×14mm×2.0mm(typ.)

2 of 3

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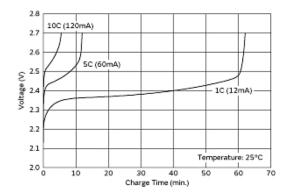
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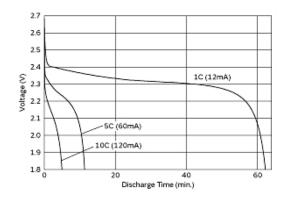
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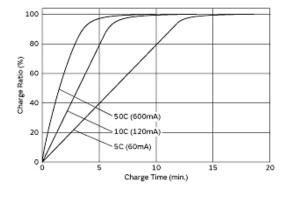


### **Product Data**

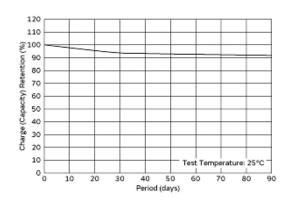




### Charge Characteristic



### Discharge Characteristic



### SoC/Charge Current Dependence

Charge(capacity) Retention

3 of 3

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