

Product Search Data Sheet

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

UMAL201421A012TA01



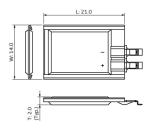






Appearance & Shape







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.

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http://www.murata.com/en-gb/products/productdetail?partno=UMAL201421A012TA0

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.)	

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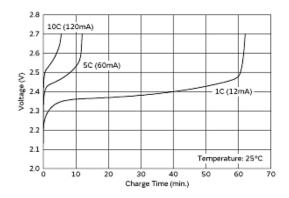


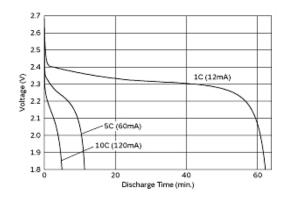
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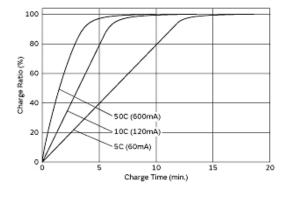


Product Data

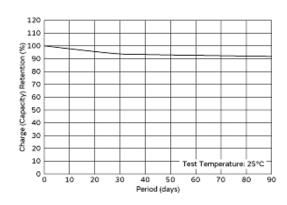




Charge Characteristic



Discharge Characteristic



SoC/Charge Current Dependence

Charge(capacity) Retention

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