

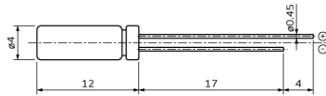
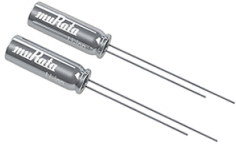
UMAC040130A003TA01

Discontinued

RoHS

REACH

Appearance & Shape



(in mm)

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 (30 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 80% or higher after 5,000 cycles

*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.

Packaging Information

Packaging	Specifications	Standard Packing Quantity
T	Box	500

Attention

1.This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.

2.This datasheet has only typical specifications because there is no space for detailed specifications.

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

UMAC040130A003TA01



Specifications

Nominal Voltage	2.3V
Charge Voltage	2.7V
Cut-off Voltage	1.8V
Nominal Capacity	3mAh
Max. Discharge Current	30mA(10C)
ESR	800mΩ
Operating Temperature Range	-20°C to 70°C
Size	φ4mm×12mm

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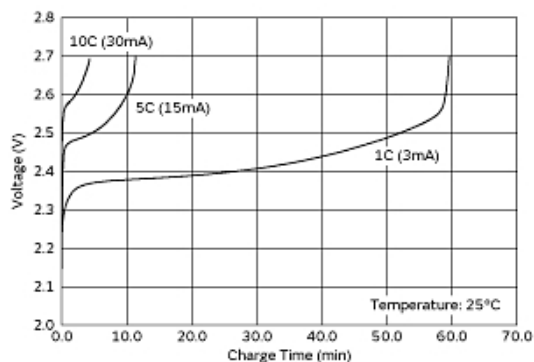
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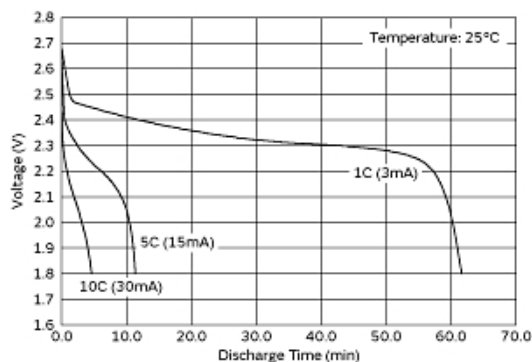
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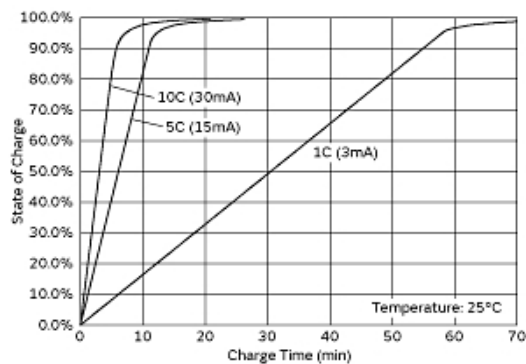
Product Data



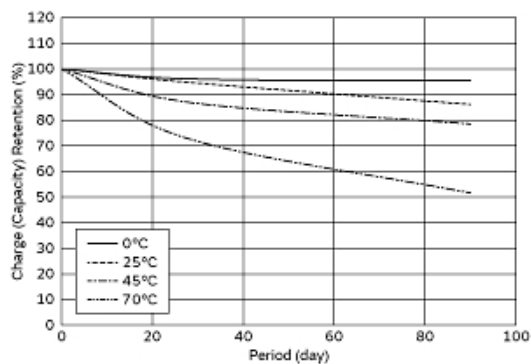
Charge Current Characteristic



Discharge Current Characteristic



SoC/Charge Current Dependence



Charge(capacity) Retention

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