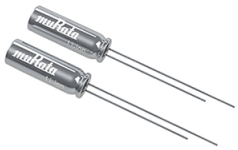
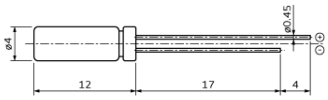
UMAC040130A003TA01

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

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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℃ to 70℃
Size	φ4mm×12mm

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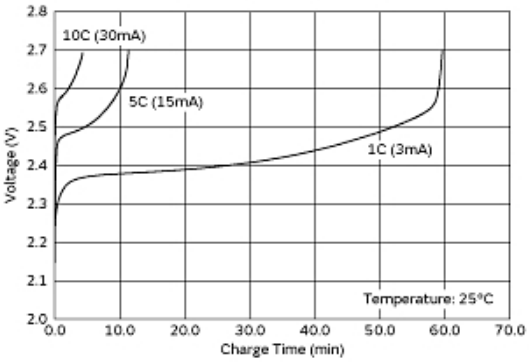
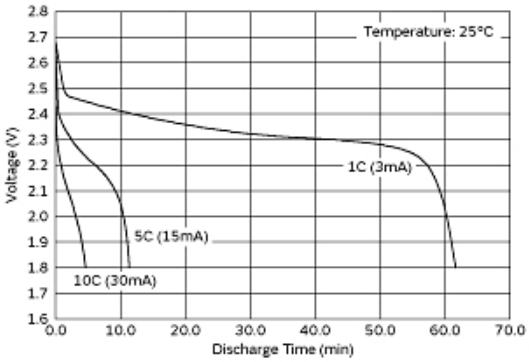
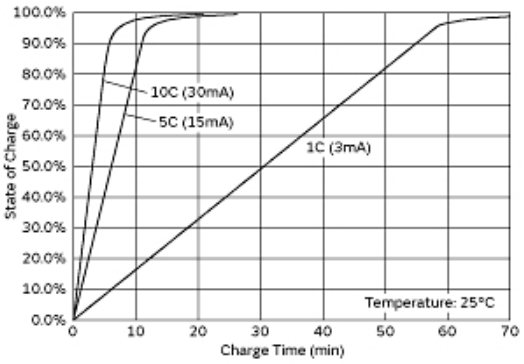
Product Data



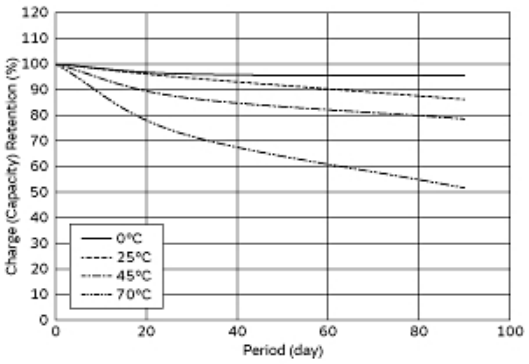
Charge Current Characteristic



Discharge Current Characteristic



SoC/Charge Current Dependence



Charge(capacity) Retention