Quick charge solutions using CT04120

1. Overview
Murata’s CT04120 can provide high input/output despite its small package. Using Murata’s CT04120 which can be charged even by quick charge, you can immediately put your equipment to work.

2. Features
・High Capacity / low ESR
CT04120: 3mAh / 1000mΩ
・Very low leakage current
・Flat voltage profile of 2.3V

3. Description
CT04120 can be charged/discharged at high current of over 10C*1 (30mA) to which conventional lithium ion secondary batteries cannot respond. For example, table 1 shows the relationship between capacity and charge time when charging CT04120 by 33C (100mA) at 25℃. Because over half capacity can be charged for just several minutes, you can put your equipment to work immediately.

*1) The current rate at which the battery capacity is charged or discharged in one hour is defined as 1 C. When battery capacity is 3mAh, 1C is equal to 3mA. The higher this rate, the higher current a battery can be charged or discharged.

<table>
<thead>
<tr>
<th>Charge Capacity [%]</th>
<th>Charge Time [min:sec]</th>
<th>Operational time [min:sec]</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 (0.6mAh)</td>
<td>0:40</td>
<td>1:12</td>
</tr>
<tr>
<td>40 (1.2mAh)</td>
<td>1:28</td>
<td>2:24</td>
</tr>
<tr>
<td>60 (1.8mAh)</td>
<td>2:26</td>
<td>3:36</td>
</tr>
<tr>
<td>80 (2.4mAh)</td>
<td>3:41</td>
<td>4:48</td>
</tr>
<tr>
<td>90 (2.7mAh)</td>
<td>4:55</td>
<td>5:24</td>
</tr>
<tr>
<td>100 (3mAh)</td>
<td>5:30</td>
<td>6:00</td>
</tr>
</tbody>
</table>

Table 1 Capacity and Charge time

4. Applications
(1) Sensor network devices
(2) PC accessories (wireless mouse, electric pen, and so on)
(3) Wearable devices
(4) Security equipment

5. Product Lineup

6. Support
Please access below Website form or contact form.