**Specifications**

Classification: Rechargeable  
Chemical System: Nickel-Metal Hydride (NiMH)  
Designation: IEC-HR03  
Nominal Voltage: 1.2 Volts  
Rated Capacity: 500 mAh (to 1.0 volts)  
Based on 140 mA (0.2C) discharge rate  
Typical Weight: 12.0 grams  
Typical Volume: 3.8 cubic centimeters  
Jacket: Plastic Label

**Industry Standard Dimensions**

- (millimeters)
- 10.50 Maximum
- 9.50
- 3.80 Minimum
- 4.30
- 0.80 Minimum

**Internal Resistance:**

The internal resistance of the cell varies with state of charge, as follows:

- Cell Charged: 100 milliohms
- Cell 1/2 Discharged: 120 milliohms

(tolerance of ±20% applies to above values)

**AC Impedance (No Load):**

The impedance of the charged cell varies with frequency, as follows:

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>Impedance (milliohms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>35</td>
</tr>
</tbody>
</table>

Above values based on AC current set at 1.0 ampere.  
Value tolerances are ±20%.

**Operating and Storage Temperatures:**

To maintain maximum performance, observe the following general guidelines regarding environmental conditions:

- Charge: 0ºC to 40ºC  
- Discharge: 0ºC to 50ºC  
- Storage: -20ºC to 30ºC  
- Humidity: 65±20%

Operating at extreme temperatures will significantly impact battery cycle life.

**Important Notice**

This datasheet contains typical information specific to products manufactured at the time of its publication.  
Contents herein do not constitute a warranty and are for reference only.