ENERGIZER NH12-800 (HR03)

Industry Standard Dimensions

mm (inches)

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum</td>
<td>0.80 (0.031)</td>
</tr>
<tr>
<td>3.80 (0.150)</td>
<td>Maximum</td>
</tr>
<tr>
<td>4.30 (0.169)</td>
<td>Minimum</td>
</tr>
<tr>
<td>10.50 (0.413)</td>
<td></td>
</tr>
<tr>
<td>9.50 (0.374)</td>
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</tr>
</tbody>
</table>

Typical Discharge Characteristics

Typical Performance at 21°C (70°F)

- Cell Voltage:
  - 0.9
  - 1.0
  - 1.1
  - 1.2
  - 1.3
  - 1.4

- Hours of Discharge:
  - 0
  - 3
  - 6
  - 9
  - 12

- Current Rates:
  - 160 mA (0.2C)
  - 80 mA (0.1C)

Specifications

- Classification: Rechargeable
- Chemical System: Nickel-Metal Hydride (NiMH)
- Designation: ANSI-1.2H1 IEC- HR03
- Nominal Voltage: 1.2 Volts
- Rated Capacity: 800 mAh (to 1.0 volts)
  - Based on 160 mA (0.2C) discharge rate
- Typical Weight: 12 grams (0.42 oz.)
- Typical Volume: 3.8 cubic centimeters
- Jacket: Plastic Label

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:

- Frequency (Hz)
  - 1000

- Impedance (milliohms)
  - (Charged Cell)
  - 35

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: 0°C to 40°C
- Discharge: 0°C to 50°C
- Storage: -20°C to 30°C
- 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.