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V 18 HRT
Rechargeable NiMH Button

Data Sheet 1)

Type Number: 55802
Nominal Voltage [V]: 1.2
Nominal Capacity C [mAh]: 18
Typical Capacity C [mAh]: 19

at 3.6 mA / 1.00 V
Weight, approx. [g]: 0.9
Dimensions [mm]:

Diameter [d]:

min.  max.
11.4  11.5
Height [h]:

min.  max.
2.0  2.3*

UL Recognition: MH 13654
Coding: Manufacturing 5 digit code
(123 = day/4 = year/ 5 = version)

Temperature Ranges [°C]

Storage: less than 30 days

-40  80
less than 90 days

-40  65
Discharge:

-20  80
Charge:

0  80
Accelerated charge:

10  55

Charging Method:

Normal Charging: 1.8 mA for 14 – 16 h
Accelerated Charging: 9 mA for 2.5 h
Time controlled, voltage control recommended
Trickle Charging: 0.6 mA
Overcharge (20°C):

0.6 mA continuous
1.8 mA up to 1 year

Charge Retention [%] at 20°C:

80
Capacity available after 1 month Storage at 20°C

Internal Resistance [Ohm]: 5

at charged cells, 20°C, DC: 3.6mA/36mA, (IEC 61951-2)
Impedance [Ohm]: 0.6

at charged cells, 20°C, AC: 1kHz, (IEC 61951-2)
Typical Capacities [mAh]:

at 18 mA/0.90 V 15
at 54 mA/0.90 V 9
Max. Discharge Current (cont.) [mA]: 100

Life Expectancy (typical):

IEC Cycle: 1000 Cycles
Trickle Charge: up to 5 years (20°C)
Trickle Charge: up to 3 years (45°C)

Capacities based on normal charging
* Height might increase up to 0.2mm due to swelling over lifetime

1) Prior to use read Rechargeable NiMH Button Cell handbook @ www.varta-microbattery.com