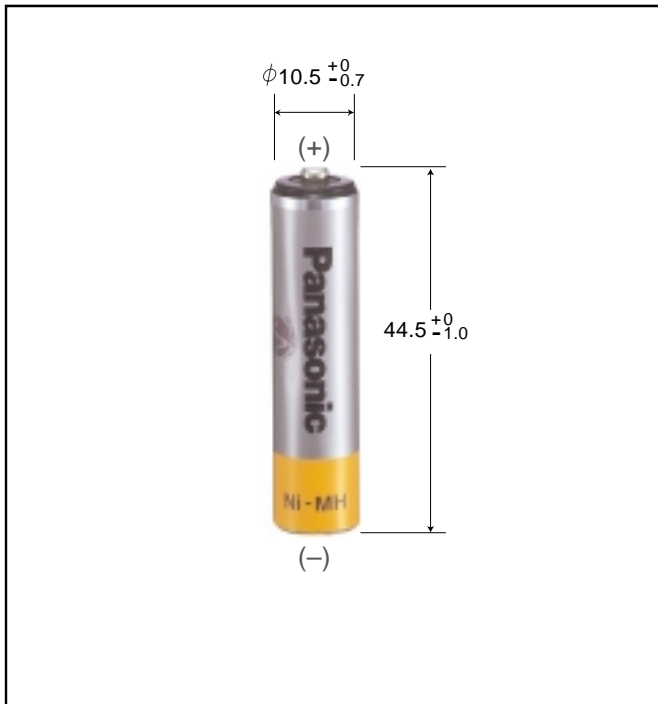


# INDIVIDUAL DATA SHEETS

## HHR70AAA/B Cylindrical AAA size (HR 11/45)

### Dimensions (with Tube) (mm)



### Specifications

Diameter	10.5 +0 / -0.7 mm
Height	44.5 +0 / -1.0 mm
Approximate Weight	12g

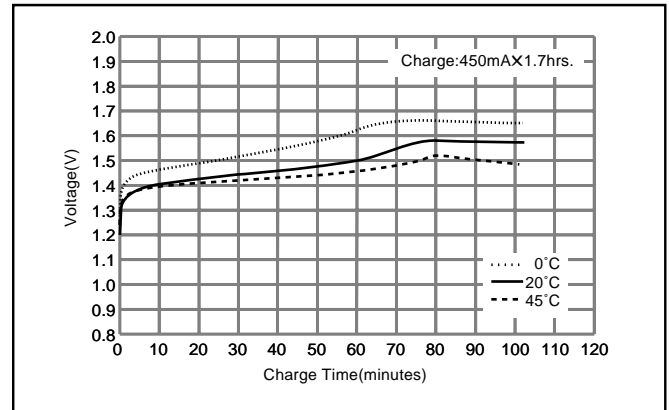
Nominal Voltage		1.2V	
Discharge Capacity*	Average**	680mAh	
	Rated (Min.)	650mAh	
Approx. Internal impedance at 1000Hz at charged state.		30mΩ	
Charge	Standard	65mA x 16hrs.	
	Rapid	450mA x 1.7 hrs.	
Ambient Temperature	Charge	Standard	0°C to 45°C
		Rapid	0°C to 40°C
	Discharge		-10°C to 65°C
	Storage	< 1 year	-20°C to 35°C
< 3 months		-20°C to 45°C	
< 1 month		-20°C to 55°C	

\* After charging at 0.1CmA for 16 hours, discharging at 0.2CmA.

\*\* For reference only.

Battery performance and cycle life are strongly affected by how they are used. In order to maximize battery safety, please consult Panasonic when determining charge / discharge specs, warning label contents and unit design.

### Typical Charge Characteristics



### Typical Discharge Characteristics

