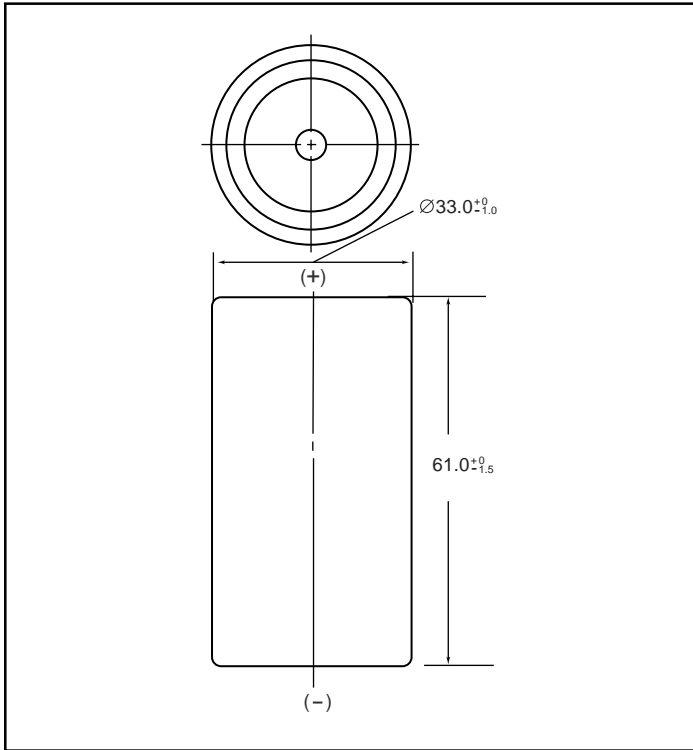


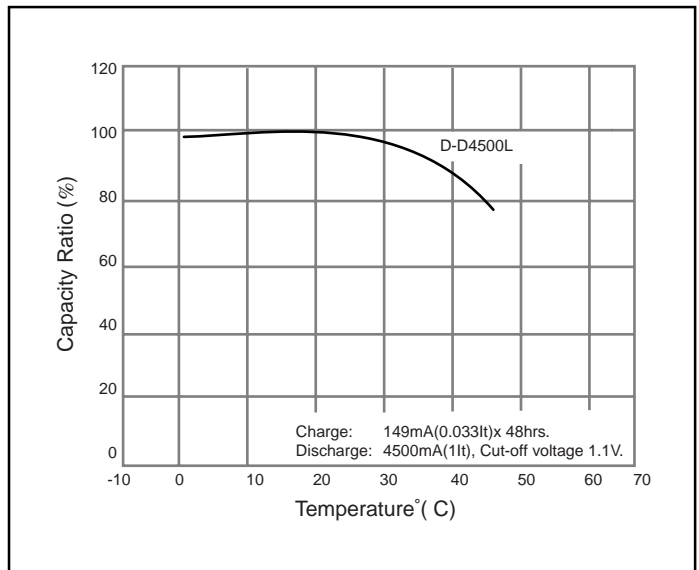
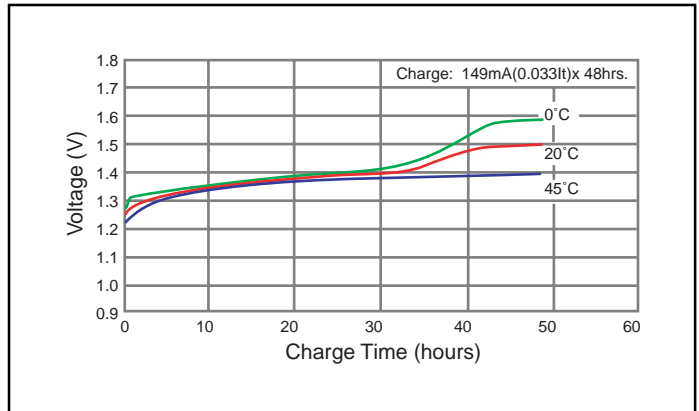
NI-CD BATTERIES INDIVIDUAL DATA SHEETS

Type:D-D4500L

Dimensions (with tube) (mm)



Typical Charge Characteristics

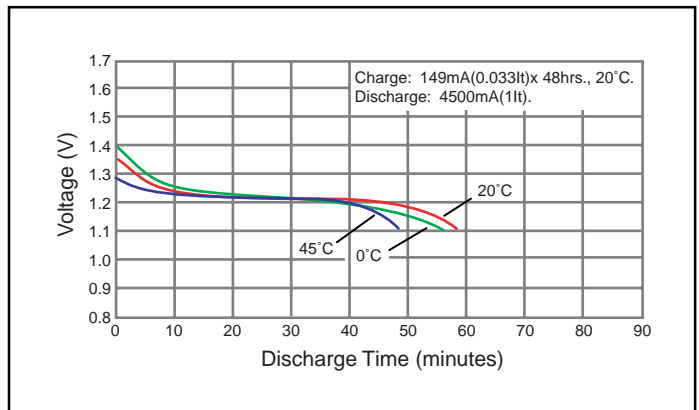


Specifications

	mm	inch
Diameter	33.0 +0 / -1.0	1.30 +0 / -0.04
Height	61.0 +0 / -1.5	2.40 +0 / -0.06
Approximate Weight	Grams	Ounces
	139g	4.9

Nominal Voltage		1.2V	
Discharge Capacity*	Average**	4950mAh	
	Rated (Min.)	4500mAh	
Approx. Internal impedance at 1000Hz at charged state.		7mΩ	
Charge	Standard	400mA (0.1It) x 16hrs.	
	Trickle	Max Current	200mA (0.05It) x 30h and over
		Min Current	133mA (0.033It) x 48h and over
Ambient Temperature	Charge	°C	°F
		0°C to 45°C	32°F to 113°F
	Discharge	-20°C to 65°C	-4°F to 149°F
Storage	< 2 years	-20°C to 35°C	-4°F to 95°F
	< 6 months	-20°C to 45°C	-4°F to 113°F

Typical Discharge Characteristics



* 0.2It discharge capacity after charging at 0.1It for 16 hours.

** For reference only.

Note: [It] was previously expressed as [C]. [It] is an IEC standard expression for the amount of charge or discharge current and is expressed as:

$I_t(A) = C_n (Ah)/1h.$

- [It] is the reference test current in amperes

- [Cn] is the rated capacity of the cell or battery in Ampere-hours.
n = the time base [hours] for which the rated capacity is declared